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EARLY SCIENCE IN OXFORD

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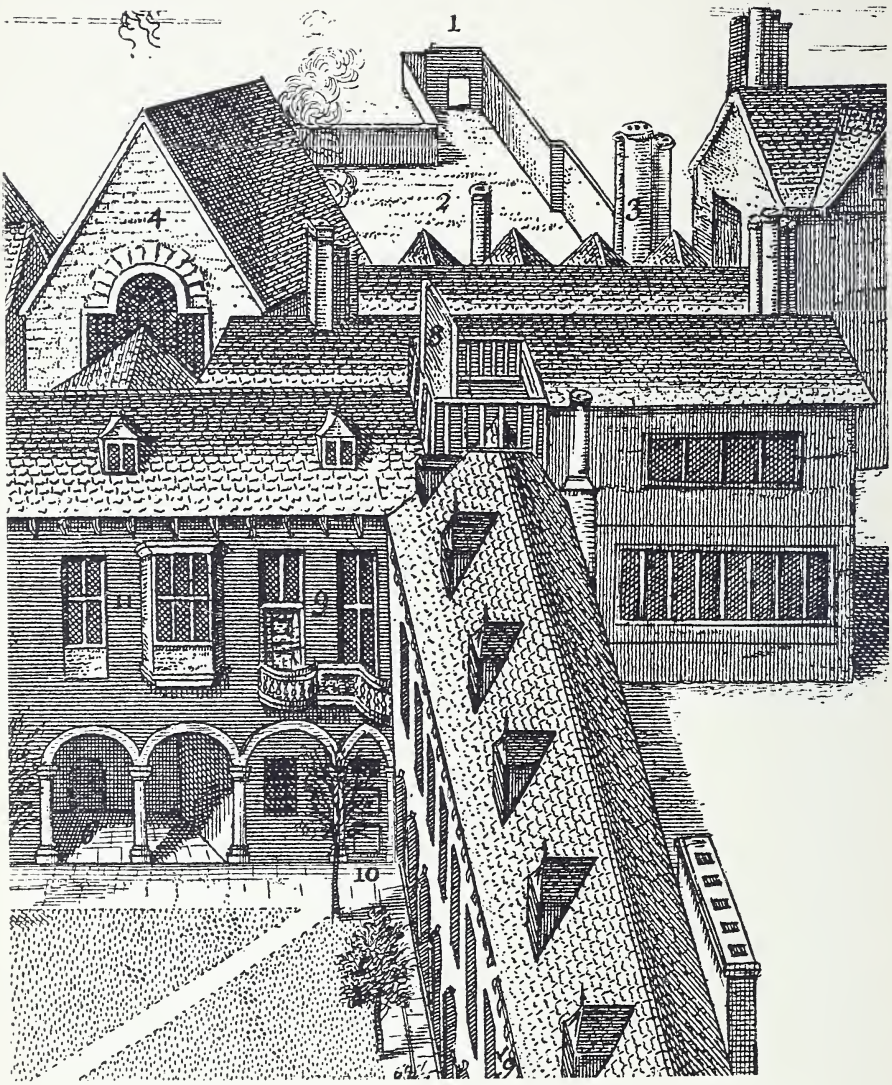

Fig. 1. Hooke's Lodgings (9) in Gresham College, 1664–1703.

1. Gate into Bishopsgate Street. 4. Reading Hall.
8. Observatory. 11. Room behind Reading Hall.

EARLY SCIENCE IN OXFORD

BY

R. T. GUNTHER

VOL. X

THE LIFE AND WORK OF ROBERT HOOKE

(PART IV)

TRACT ON CAPILLARY ATTRACTION, 1661

DIARY, 1688 *to* 1693

OXFORD
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1935

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NOTE

To celebrate the 300th anniversary of the birth of Robert Hooke, the greatest English mechanical genius of the seventeenth century and the mainstay of the Royal Society for thirty years, two of his writings, his earliest and one of the latest, have been selected for publication in this the fourth volume of his Collected Works.

The first is his essay on Capillary Attraction, entitled *An Attempt for the Explication of the Phaenomena observable in an Experiment published by the Honourable Robert Boyl, Esq.; in the xxxv Experiment of his Epistolical Discourse touching the Aire. In confirmation of a former Conjecture made by R. H.* 1661. This was written during his Oxford period when he was still assisting Robert Boyle in the laboratory at the back of Cross's pharmacy next to University College in the High Street. The essay is dedicated to Boyle. The facsimile reprint has been made from my own copy of the work, now excessively rare. Curiously enough Hooke and Cross met again in London after an interval of over thirty years, and their meeting is noted in the sequel.

The second is the concluding part of his famous Diary, MS. Sloane 4024, which has not previously been copied or printed. An earlier part from October 1681 to September 1683 was published by myself in 1930 as a part of the *Life and Work of Robert Hooke*. I desire to express my thanks to the authorities at the British Museum who have, if it were

possible, exceeded their usual courtesy by having the closely written manuscript-leaves unbound, to facilitate the reading of many lines previously concealed from view. This little Diary presents a farrago of problems, some soluble, others impossible of certain solution. Hooke had a way of separating words in the same sentence by full stops; and by reducing other words to single letters he evolved a method that was never intended for any eye but his own. If I have occasionally misinterpreted his meaning, I apologize to his memory. I have done my best: with more study by a larger circle of readers with wider interests and knowledge, more clues to his meaning will be discovered.

I do not agree with Messrs. MacPike and Robinson in considering the entries to be quite 'indecipherable'. Given time, their solution is not less exhilarating than that of cross-word puzzles, and is quite as useful. A few blunders in trial shots are unavoidable, but some of those printed by Mr. MacPike on p. 186 of his 'Halleiana' might easily have been corrected.

Great assistance would and could undoubtedly have been given had I been permitted to copy the other and more legible part of the Diary that belongs to the City of London. This has lain sterile and unused for some forty years, and I was naturally desirous of adding a transcript to this edition of Hooke's Collected Works. The requisite permission, however, was refused by Mr. Owthwaite of the Guildhall Library, although he has given permission to Dr. P. Pelseneer of Brussels, to Mr. MacPike of Chicago, and to Mr. Robinson.

Recently an interesting article by Miss M. I. Batten printed in *The Times* of 14 February last produced so many applications for permission to publish, that Mr. Owthwaite deemed it expedient to rush out an extraordinary statement in *The Times* for 15 February to the effect that he had been instructed by the chairman of the Guildhall Library committee to announce 'that permission has now been given to the *Royal Society* to arrange for the editing and publishing of the diary at an early date'.

The italics are mine. The highest officer of that society informs me that the Royal Society has *never* asked for any such permission! Nor is it really the business of that society to take the responsibility for the editing and publishing of records belonging to the City of London which deal largely with the work of former City Surveyors. The Council of the Royal Society has, however, made a charitable grant of £100 to the worthy firm of Messrs. Taylor & Francis, printers, towards *their* expenses in printing a work, the copyright of which is claimed by the Guildhall Librarian.

Had the permission to make a copy been granted to me when requested, the Royal Society would not have been put to so great an expense, the Public would have had the complete Diary in their hands four years ago, many of the outstanding architectural problems would have been solved, the text now printed would have been more correct, and the whole work would have been accessible by a single index.

In the body of the book are a few letters and a

survey by Hooke, printed in facsimile from originals in the British Museum and in Cambridge.

In addition to the assistance received from the officers of the British Museum, I desire gratefully to acknowledge that given by Sir Charles Firth, the Librarian of Trinity College, Cambridge, Mr. and Mrs. Rumens, Miss E. G. Parker, and the Clerk of the Worshipful Company of Haberdashers.

June, 1935 R. T. GUNTHER

THE MUSEUM OF THE HISTORY OF SCIENCE
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PREFACE

THE Christmas of 1687 was chosen by Dr. Birch as the date for bringing his detailed *History of the Royal Society* to a conclusion, and Hooke was one of those who read a paper at the last meeting. So that for the year 1688, instead of our being able to chronicle some hundred items in which Hooke was concerned, we were only able to cite three lectures, two on the Flood, and one on Earthquakes. And for 1689 we had only mentions of a Lecture on the present State of the Surface of the Earth; an Experiment 'Of the Penetration of Bodies'; a paper on the Arithmetick of the Brachmans; notes on refitting the Weather Clock, on Bangue, on East India Voyages, on Dipping Wells, and on the decrease of Gravity towards the Equinoctial. Similarly for 1690 we noted lectures on Sails and on scientific instruments for Navigation, and a discourse on Earthquakes in the Leeward Islands. For 1691 there is only his December lecture on instruments for Sounding. In 1692 he read on the history of telescopes and microscopes.

The Diary now before us shows that notwithstanding his frequent attacks of illness, he was still full of life, always flitting from one job to another with extraordinary and unsuspected energy. So far from being a recluse, he was one of the most socially minded of men. He reveals the daily, and even hourly, habits of his associates, thereby making them known to us as never before. By his reference to them by nicknames, or at any rate by much

abbreviated names, their identity cannot always be established with certainty, but the majority can be recognized as prominent Fellows of the Royal Society.

The Council of the Royal Society for the year from November 1686 to November 1687 consisted of:

*The Earl of Carbery, President

*Daniel Colwall
*John Evelyn
*Dr. Thomas Gale, Secretary
*Thomas Henshaw
*Oliver Hill, Treasurer
Dr. W. Aglionby
*J. Creed
Sir Anthony Dean
*Robert Hooke
Sir Edmund King
*Sir John Hoskins, Secretary
*Samuel Pepys
*Sir Joseph Williamson
Sir Cyril Wyche
*Sir Christopher Wren
*Francis Lodwick
Sir John Lowther
Philip Packer
*Alex. Pitfield
*Richard Waller

In the next year 1687–8 ten of these dropped out, their places being taken by

Henry, Duke of Norfolk
George, Earl of Berkley
Edw. Haynes
J. Herbert
William Perry
Sir William Petty
Dr. Pit
Dr. Robert Plot
Dr. Slare
Dr. Edward Tyson

Hooke was one of those whose turn came to go off the Council, but when Lord Pembroke became President in 1690, all those whose names are marked with asterisks came on again and are mentioned in the Diary. These comprise many of the persons with whom Hooke had daily, or at least weekly, intercourse.

It is not difficult to recognize his 'Hosk, Hen,

Wall, Lod, Pif, and Pep' among them. In addition there are his Oxford friends, 'Hall' or Edmond Halley, and Mr. Boyle, the invariable 'Mr.' being an indication of the high and friendly regard in which Hooke always held his early patron, the Hon. Robert Boyle. Of his other cronies, not Fellows of the Society, 'Ash, Spen, and Cur' are recognizable as Ashby, Spencer, and Currer; but his even greater friend 'Gof' presents difficulties, for there were Sir Godfrey Copley and Mr. Godfrey, from whom he once bought tea, or Gof may have been quite another person, such as the Mr. Gough, the business acquaintance whom Rowland Davies met at St. Dunstan's Coffee-house in April 1690. Wall, Pif, Lod, and Gof were his chief intimates, and to the first of these we owe the editions of Hooke's Posthumous Works.

Similarly Sir Christopher Wren, Sir Robert Southwell, and Sir James Long may be referred to as 'S.C.W.', 'S.R.S.', and 'S.J.L.' but their title 'Sir' is never omitted, though his titled coffee-house companion Sir John Hoskins appears as 'Hosk' and the immortal Mr. Pepys as 'Pep'. He had, therefore, a due appreciation of the value of titles, and we find 'D, B, and Ld' for Duke, Bishop, and Lord Mayor of London. HH, usually written as a monogram ⊕, stands for Henry Hunt who from about 1676 helped Hooke as operator to the Royal Society, and acted as Curator of the Repository. He occasionally had dinner, and habitually morning tea, with Hooke, indicating that both were living in Gresham College. In the sequel 'R.S.' has been uniformly expanded to Royal Society.

The Gresham Professors

Hooke's colleagues, the Gresham professors of Divinity, Astronomy, Rhetorick, Music, and Law, are far less frequently mentioned than the Fellows of the Society. It is possible that they were not all in residence in the College. The only occasion when several are mentioned together was when they had to go to the Guildhall to take the Oath of Allegiance to King William III. It is known that some of them made a practice of adding to their professorial stipends of £100 a year, as well as possibly to their creature comforts, by living out of college and by letting their official lodgings to strangers—e.g. the Council of the Royal Society in June 1688 ordered that Perry and Halley do make a conclusive bargain with Prof. Wells for his Lodgings, and Hooke records 'new lodgers in Wells's lodging on 2 October 1689'. Wells was professor of Divinity from 1686 to 1691, when he resigned upon marriage. Torriano is mentioned several times. Hooke neither lived out nor married. He found in his sciences more than a whole time job. He seems to have had more accommodation in the College than the others. He received £40 to construct a turret over his lodgings for astronomical observation, and doubtless the giving over in 1674 of the great west gallery of the College to the Royal Society, and into his charge, gave him abundant space for his many works. Anyhow we know that he had a parlour with a fireplace, and that he had a stable for which he seems not to have found much difficulty in finding tenants at £8 a year and the charge of improving the door of a coachhouse. Whether all Gresham professors

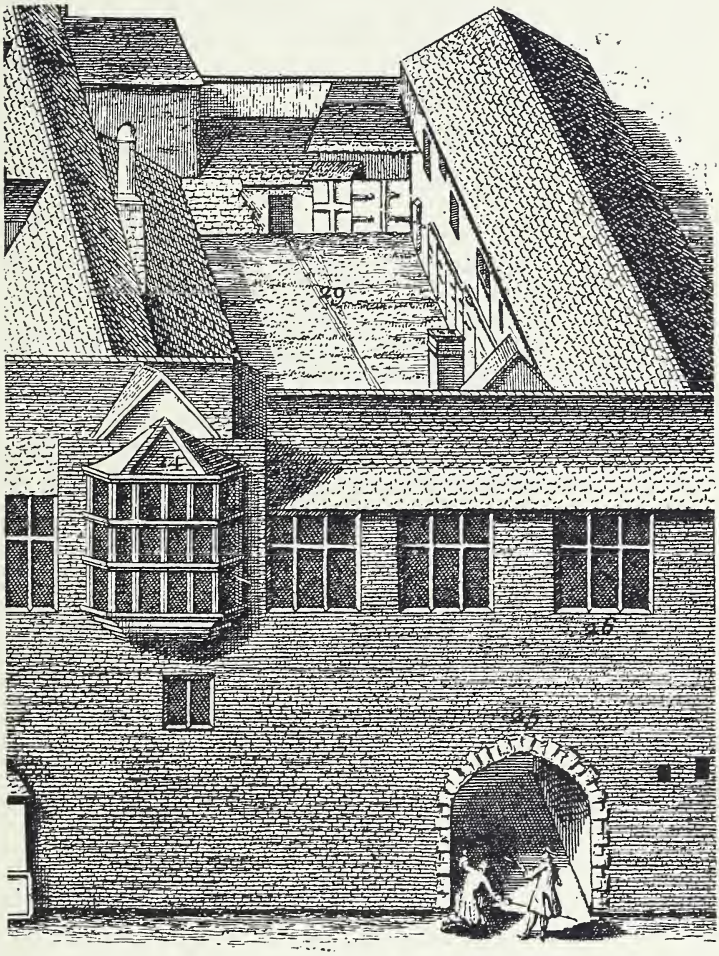


Fig. 2. Hooke's Stable at Gresham College.

24. Oriel window at the west end of the Bibliotheca Norfolciana.

had stabling we do not know. Hooke's tenants were Mr. Robert Foot, Mr. Fips who left because his coach was robbed, Mr. Pargiter who paid £3 for the doors in addition to his rent, Messrs. Horne and Southby, while Renison, Stillingfleet, and others made inquiries, being shown round by Farran, perhaps the college porter, who one October 9 'quarreled in the Hall'.

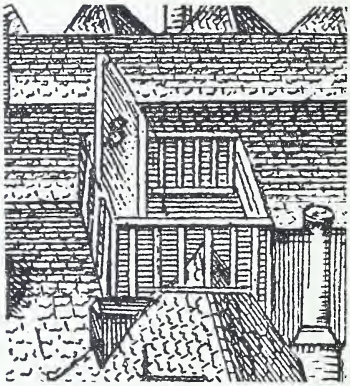


FIG. 3. HOOKE'S TURRET OVER HIS LODGINGS, 1675.
For trying instruments and making observations.

Hooke had no need to own a horse or carriage. Most of his houses of call were just round the corner, or at most within a few minutes' walk, and when he visited the more distant city of Westminster he hired a coach for 2 shillings; or, more rarely, went by water. For country walks he favoured the more northerly regions of Kingsland, Highgate, and Islington; often combining business with pleasure, as when he went to 'View' eligible building sites, or buildings in progress, or to settle the valuations and disputes of others; and, as often as not, he would be accompanied on these walks or viewings

by his friends Gof or Lod or Wall. The Islington region was not then a 'built-up area'. It was there that Pepys and his wife went Maying. 'My wife and I away to Islington, it being a fine day, and thence to Sir G. Whitmore's house [at Hoxton], where we 'light, and walked over the fields to Kingsland and back again; a walk, I think, I have not taken these twenty years.' Pepys *Diary* 1667 May 12.

Professor Ward, to whom all are indebted for his *Lives of the Gresham Professors*, made no attempt to record any of the more intimate and necessary details of their daily existence, and for all the mention he makes of how they got their bread and butter they might have been angels or robots. It is, in this respect, that Hooke's private Diary supplies much intimate detail.

Hooke's Abbreviations

Information as to his domestic life depends on the correct interpretation of this much abbreviated Diary. On occasion the spelling is anyhow, especially on hearing a name for the first time, and the task of decipherment is none the easier in that several of his abbreviations appear to be used in different senses.

Taken in alphabetical order those which occur most frequently in general use are 'D, DH, G ⊙, ⧺, HHea, M, M.m., Mm, no, nopp, o, pp, rd, S, slpp, tb'.

If the wishes of the Founders of Gresham College and of others were observed, the early custom of a common table and of dieting together would have been kept up. If so, some of Hooke's rather cryptic

abbreviations are explicable. 'Jon' and 'MF' are certainly names of a house and a locality, as 'HH' and 'M' are names of persons. 'Jon' was Jonathans, a well-known coffee house off Cornhill, 'MF' was Moorfields, while '⊕' and 'M' were Hunt and Martha, apparently cook-housekeeper, who to some extent replaced his niece Grace Hooke, who had died in 1687.

We may observe in advance that Hooke so often spells the negative in full 'noe', that 'no.' appears to mean something else; we suggest that it is used in the sense of 'not out', as when illness kept him at home until a certain hour. So 'pp' is post prandium, or after dinner. 'O' seems to stand for 'nothing' or 'nothing doing', but why it should be used so frequently is not easy to understand except on the theory that Hooke's active mind expected more than this humdrum world could produce, even in the stirring times in which he lived.

Domestic Household Details

By proceeding from the known to the unknown we find that 'DH' was an almost daily event that occurred well on in the day's work, except on Sundays, when his day started with 'DH'.

Excepting for frequent instances when it stands for Doctor, 'D' is obviously 'Dinner' or 'Dined', as in the context 'D. with Busby'. On such days of dinner out, Hooke had no DH. Similarly, in the entire absence of any other reference to a square meal on the days when he had DH, it is reasonable to take DH to mean his dinner, though when, where, and with whom remains in doubt. No payments

are stated in connexion with DH, so I adopt the theory that it signified dinner at home, perhaps a house dinner in the Hall of Gresham College. He did not often dine out except when he had 'D with D Bus[by]'. 'DH', for example, is not entered on the day when he 'went down into Essex for the day', and appears not to have thought much of Essex hospitality for he coldly recorded 'bread and butter' in the Diary, followed by 'dined with Hunt' presumably a later meal after the return to London on June 3. Of course this interpretation will not work if DH is to be read in connexion with the places that are usually mentioned immediately after, as 'DH. at Jon', but having due regard to Hooke's style, we prefer to consider these as records of two events, a dinner at home or 'Dinner Here', followed by a visit to 'Jons', where subsequent events are duly recorded. On some days there was o DH, which we take to be 'no dinner here'. On three occasions we read 'DH peas', 'DH beans', 'DH carrets' which certainly refer to extra delicacies, if not to the whole vegetarian *plat du jour*. I suggest that DH was the meal prepared in the College kitchen and served in the College Hall or in the professor's Lodging, and for which no charge appears in Hooke's weekly accounts.

His meals had certainly become more frugal than they were in the winter of 1675 when he induced a fit of 'ye collick' by partaking of 'neats tongue and cabbage and drinking sack, chocolate and tobacco'. We do not find mentions of money spent on wine that were so frequent at an earlier day. No longer does he spend five shillings for three bottles of port,

nor offer sack to all his visitors. Hooke and Haak used to play chess and drink brandy.

DH in the summertime was sometimes followed by 'slpp'—obviously a post-prandial siesta, in which many great men have indulged, but which few of them have ever recorded. Hooke resolved to give up smoking on the day the news of Killicrankie came through, yet on occasions he purchased tobacco of Lassells, and on another discovered that Hunt smokes; though why he should write 'Cave' after it is not clear. Ten years before he had 'smoked with Sir Christopher', but had given it up until one day when he 'Cheered all by Retaking Tobacco'.

His only other meals were his teas, and perhaps unlike DH, they were often social functions. Hooke began his ordinary day with '+++ea'. Elsewhere +++ was undoubtedly Henry Hunt, for it was to HH to whom Hooke 'Dd the Mace of the Royal Society on July 13' 1689. So it is not unreasonable to read 'HTea' as 'H Hunt's tea' or 'Hunt Here Tea'. It is almost always the first entry in the day. It was followed by 'Hally tea', 'Lod tea', 'Gof tea', &c., or tea with other friends. Occasionally a 'tea box' is brought to our notice. This may refer to the replenishing of the caddy, or more probably to the acquisition of another fifteen pound box from Mr. Godfrey—who charged at the rate of 5*s*. 6*d*. per pound. Cacaos he purchased of Jonathan at the rate of 9*d*. a pound. He often went out to tea and gossip with Mrs. More. She must have been a learned lady if he read Greek to her.

Payments made for food include weekly sums for

bread 'br.', and 9½ for beer, which usually follow after MM or Mm. These must refer to some kind of shopping in which I was at first inclined to include the cost of food for 'M.', a not very satisfactory servant of the name of Martha, *alias* 'Marθ', 'Mar', or 'M'. As she was in receipt of regular wages, 20*s.* paid quarterly, or £4 a year, these weekly payments varying from 19*d.* to 2*s.* 4*d.*, exclusive of bread and beer, must have been for food, and not for 'Martha's money', as has been suggested. In one passage 'M. mark.' may suggest the clue—'Martha's marketing'. But 'Mm' may equally stand for any two of the following words 'Market, meat, milk, money' and make good sense. 'Sugar 6*d*' is specially mentioned. In addition there are notes on making good deficiencies in household gear, as 'mop 11*d*', 'broom 1*s.*'; and on gala days in Martha's clothing, or her employer's buttons, as '3 doz buttons 18d, silk 9d, thread 1d, 3½ yards of shalloon', October 11; and elsewhere 'galloon 7s'.

Martha was a chronic trouble. Hooke had known better days while his niece Grace was keeping house for him. He did not silently suffer Martha's staying out till 12 o'clock, or her going away to Capt. Paggen (Apr. 13) or her back-chat. July 31 'Gave M warning, damn impud[ent]'.

When the diary restarts in December 1692 Martha has disappeared and Mary is reigning in her stead, and, at least until August 1693, without reproach. She went to St. Peter's church most regularly on Sundays. Susan does the 'marketing' for 2*s.* 4*d.* when Mary is indisposed. When Susan is very sick Betty Young comes to the rescue. Betty may be

one of N. Young's children. 'Coles' were purchased from White for 33*s*. or 34*s*. a chaldron. In 1693 they came from Steven and Lumbly.

Before leaving the subject of domestic detail I will recall an instance of the peculiar sense in which Hooke used the term 'Algebra', namely of a classification of methods or ideas appertaining to some particular subject. An entertaining instance is printed in the Preface to the first volume of this series. Here is another, on the subject of his favourite beverage—tea.

The Qualities and Operations of the Herb called Tea or Chee.

It has according to the description (being translated out of the China language) these following Virtues:

1. It purifyes the Bloud, that which is gross and heavy.
2. It vanquisheth heavy dreams.
3. It easeth the brain of heavy damps.
4. Easeth and cureth giddinesse and paines in the head.
5. Prevents the Dropsie.
6. Drieth moist humours in the head
7. Consumes rawnesse.
8. Opens Obstructions.
9. Clears the Sight.
10. Clenseth and Purifieth adust humours and a hot Liver.
11. Purifieth defects of the Bladder and Kidneys.
12. Vanquisheth Superfluous Sleep.
13. Drives away dissiness, makes one nimble and valient.
14. Encourageth the heart and drives away feare.
15. Drives away all Paines of the collick wch proceed from Wind.
16. Strengthens the inward parts and prevents Consumption.

17. Strengthens the Memory.
18. Sharpens the Witt and Quickens the Understanding.
19 Purgeth Safely the Gaul.
20. Strengthens the use of due benevolence.[1]

In those days it was not considered *infra dig.* for a Fellow of the Royal Society to discuss topics of so universal an interest, and Hooke's friend John Chamberlain, F.R.S., wrote a book on '*The manner of making Coffee, Tea. . . . Of the use of Coffee*'.

On occasion friends came to stay, and certainly his Oxford friend John Aubrey, when otherwise homeless in London, used 'Mr. Hooke's Lodging in Gresham College' as his address.

Duties

The life of Hooke during the period under review was, as it always had been, a very full one. Professionally he had three engagements:

1. His duty (often self-imposed) as Curator of Experiments to the Royal Society.
2. His duty as Surveyor to the City of London.
3. His duty as Gresham Professor and Lecturer on the foundation of Sir John Cutler.

All the time that he was not occupied in preparation for these three duties he spent (4) in the society of his own circle in collecting and discussing the events of the day, and (5) in attending and buying books at Book Auctions (or 'Auxions'), or in borrowing books, often in sheets, of the booksellers for reading, abstracting, or translating.

His business interests, in addition to the letting

[1] Inscribed from a paper of Tho. Povey Esq. Oct. 20, 1686, MS. Sloan 1039, f. 139.

of his stable, appear to have included the management of a property in the Isle of Wight—it will be remembered that he was a native of Freshwater—from which he periodically received rents £13 on March 22, '89 from Robert Giles of Brading (19 Sept.) paid through Capt. Newland of Cowes and Capt. Paggin of London.

He continued to practise as an Architect, Consultant, and Surveyor. In the latter capacity of professional 'viewer', as it was called, Hooke's assistance was continually being sought by some 'one about a view', which when accomplished involved the payment of a fee varying from 10 to 20 shillings. Frequently his colleague, John Oliver, formerly a glass-painter, was associated with him. The fee he sometimes remitted in the case of friends. His takings he placed in his chest, sometimes in his 'fob', and once in his 'pn' (?).

Health

The pages of the Diary show in the clearest manner how continually he was overtaxing the strength of his 'thin weak habit of body'. He had reached his fifty-fourth year, yet often continued his studies far into the night, reading omnivorously all manner of books by the very indifferent light of the candles, at 4½*d.* a pound, that figure in his weekly budget more prominently than his daily bread or milk. The concluding note 't.b.3' we interpret, as his friend Mr. Pepys might have done, 'to bed at 3'. References to broken spectacles tell their own tale. From earliest childhood he had been 'infirm and weakly, and therefore nurst at home'. Milk and

milk puddings and fruit had been his chief food, 'no flesh in the least agreeing with his weak constitution'. But it was also due to this disability that his early education was different from that of other lads, and to it he owed the unusual development of his peculiar gifts. In the later years, now under review, he suffered from frequent colds, especially in the early months of the year, 'much disordered by my cold' was his symptom. A severe attack of colic is recorded on November 6, 1688. Sitting up late reading, occasionally till daybreak, resulted in headaches. A course of drinking Northall water was beneficial. He made special notes of his dreams April 25, July 9, and October 14 after missing chocolate, for which we have assumed the ordinary meaning of the word, but it should be remembered that to Halley 'chocolate' was quinine in water-gruel taken whenever he felt a feverish cold coming on. Giddiness, headache, and eyestrain were the penalties he paid for those exacting studies with the microscope in earlier years, when he probably worked in a blaze of sunshine until his eyes were fairly burnt out. Spectacles fitted August 14, 1689, by Cox were improved by Tompion, August 29. On August 18, he became quite blind in the right eye, but recovered, D.G. Again on September 3 'sight failed'. By Boyles's advice he applied apple juice to clear the sight. Marshall's spectacles cost 1*s.* 6*d.* each (July 20, 1693). He died in 1703 at the age of 67.

It was surely due to this uncertain health that for many months he had become less able to keep in the forefront with those of his fellow-members of

the Royal Society who were engaged in research, but had been compelled to devote his energies to the preparation and reading of the Lectures founded by Sir John Cutler.

At the time of the Diary the less exacting work of an architect and surveyor proved a beneficial relaxation after his years of arduous work for the Royal Society and it was certainly far more remunerative. Still the Council continued him as a member of its Publications Committee, to assist or control Halley when compiling and editing the *Transactions*.

Coffee-house Life

For Hooke and his contemporaries the great social event of the day was their meeting in the Coffee-houses. There they saw one another and discussed the news.

On arrival the first thought of the habitués does not seem to have been a 'morning coffee', but the latest post, newsprint, or rumour. They lived in stirring times: the political situation was continually changing from day to day. The age-long animosity between protestants and catholics was at red heat. One king was being dethroned to make way for another. The concomitant events, the 'stop of ships to France', a popish King considered 'not honorble nor safe' for England, proclamations, the Coronation, wars in Ireland, Scotland, and on the Continent are all reflected in the early pages of the Diary. The principal sources of information were the Gazette, the Scotch paper, and the foreign news letters, briefly referred to as 'Harlem' or

'Amsterdam', from Holland with whom England was in alliance against France. The designation 'Spy' may refer either to a newsprint as the 'Athenian Spy', or to some eavesdropper ready to listen and report incriminating conversations to the undoing of the speaker. The rumours were frequently sensational and erroneous, and even the news supplied by a Harlem Cour[ant], or the Dutch and Flanders Posts may or may not have been more reliable than that of the 'Paris Gazet' of July 10, which Hooke described as 'a sham'.

It may be a matter of significance that for several months together Hooke omits all mention of political events. They may have lost interest for him, as compared with the more exciting changes of the earlier period.

Some fifteen years before his story opens, the status of the Coffee-houses was somewhat uncertain owing to their being condemned on the one hand as 'nurseries of Idleness and Pragmaticalness' and worse, by some of Charles II politicians, but as being worthy of encouragement because they yielded a considerable revenue to the needy exchequer.

It was stated that some of these houses had been set up to assist 'serious and hopeful young gentlemen' . . . to avoid spending above one penny or twopence at a time, but 'meeting friends, they have sat talking three or four hours'. Another pamphleteer urged that 'he that comes often saved 2d a week in gazettes, and has his news and his coffee for the same charge'. . . 'Sir Christ Wren & Mr. Hook great drinkers of Coffee. Dr. Gale drank 2 dishes twice a day. . . . Dr. W. Cole was as great a

coffee drinker as smoaker.' So wrote Stukeley in his *Commonplace Book*.

We are glad to find that after the Revolution the character of these houses became rehabilitated, for 'persons of the highest distinction no longer incurred suspicion by frequenting a coffee-house'.[1]

Among the older established houses were those of Man's at Charing Cross, and Jonathan's near the Old [i.e. Royal] Exchange. It was at the latter, 'at Jon', that Hooke and his special friends foregathered, both before and after dinner. It was scarcely more than three hundred yards from his lodgings in Gresham College. He would have walked down Bishopsgate street and turning right along the south side of Cornhill going west from Birchin lane he would pass the Rainbow coffee-house, then Fleece Passage, Brotherton's bookshop, Tom's coffee-house, a pewterer's, then turning left into Swan Passage, he would reach Jonathan's—only a minute or two's walk from the Royal Exchange. All burnt in the great fire of 1748.

At Jon's the meeting with Pif, Gof, Lod, and others was of daily occurrence. It was a club where business was transacted and guests entertained. Among the latter, Captain Knox was a *persona grata* on account of the wonderful stories he could tell of his experiences overseas and of the wealth and wonders of tropical life. Of the Indian herb that 'takes away understanding and memory', of the blood of dragon trees 'as big as a man's middle', of the Cape of Good Hope, and of uninhabited and rarely visited islands. For this he was usually treated to a cup

[1] Rev. R. Davies, Journal for October 28, 1689. Camden Society.

of cocoa—or in the expressive words of the diary 'Cap^{n} Knox choc, Cap Knox 6d, C. Knox 4d, C. Knox 3d'. No one else was so lavishly treated.

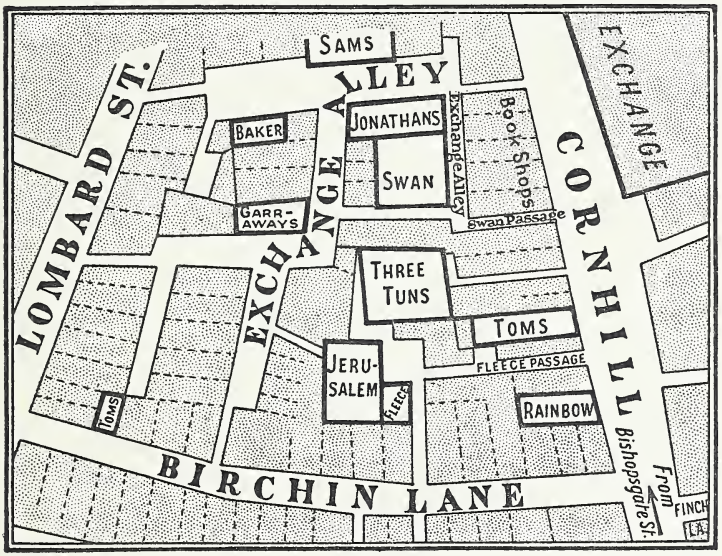


Fig. 4. Plan of Coffee-houses and Taverns near the Exchange Alley.

Similarly when Hooke tried to see Wren, he would go to Child's or to Man's. Each had its own coterie of clients. Pontack's and Jeremy's were the resorts of the 'upper circle' of the Royal Society, perhaps known to the others by the uncomplimentary name of 'the gang'.

At these houses men of congenial tastes and habits were drawn together, and after Hooke's day it was to Child's coffee-house that Halley, the astronomer royal, used to come on a Tuesday from Greenwich to meet literary people for conversation, and there much of the policy of the Royal Society

was debated and decided, and the election of new members canvassed.

Book-buying

Hooke's favourite hobby was attending Book auctions. Until 1676 as Librarian of the Royal Society he had had the charge of the great Bibliotheca Norfolciana, and which he subsequently catalogued. The frequent sales that were held in London, after the conclusion of our alliance with Holland, gave him many opportunities. That he made a thorough study of sale catalogues is shown by a dated list in his own handwriting which has not, I think, been printed before. See p. 66.

From the titles of the books bought by him at these auctions, it is not easy to diagnose either his taste in literature, or the purpose for which he was collecting them. We do know that some of his purchases were for Sir John Long, F.R.S., who paid him £20 on June 13, 1689, and it is not unlikely that others may have been for the library of the Royal Society. But some he undoubtedly purchased for himself. Of great interest are his records of otherwise forgotten book-auctions and booksellers, several of whom he visited daily during his afternoon rounds. From many he would borrow books, abstract the contents, and return them in a few days.

The principal booksellers were Samuel Smith, with whom as the official publisher of the *Philosophical Transactions* of the Royal Society, Hooke when editor would have had many dealings. The Diary shows that his mind was exercised as to the

matter of the copyright of his works (March 25, 1693). He records Walford's association with Smith in 1693.

Richard Chiswell, who 'well deserves the title of Metropolitan bookseller of England, if not of all the world', Adiel Mill, Littleberry, Boudet, Caillou, the French bookseller, Thomas Lingard, and others all figure in the sequel.

At all these we are sure Hooke's fingers must frequently have anticipated those of Swift when he saw the old library at Bateman's, and have itched as Stella's 'would do in a china shop'. After the hunt they would return to the coffee-house to discuss the spoils.

Of the Auctioneers the most celebrated was Edward Millington, most enterprising in his methods and persuasive in his speech, who advanced the selling of books into big business by taking loads of books into the provinces and of auctioning them in Oxford, Cambridge, and elsewhere. His London sales were held at 'The Auction House in Ave Mary lane over against the Black Swan'.

The great sale of Dr. F. Bernard, physician to St. Bartholomew's Hospital, began on October 4, 1688, and lasted many days: the auctioneer may have been Walford, but also Th. Hargrave at Tom's coffee-house. It was at Tom's that Hooke attended many periodical sales, and not inappropriately for in 1637 his predecessor in the chair of Geometry at Gresham College acted as reviewer of mathematical books, almanacks, and prognostications, all of which had to pass his Censorship.

Other resorts were Hussy's auctions held at

Sam's coffee-house in Ave Maria Lane, and 'Maitland's' auction.

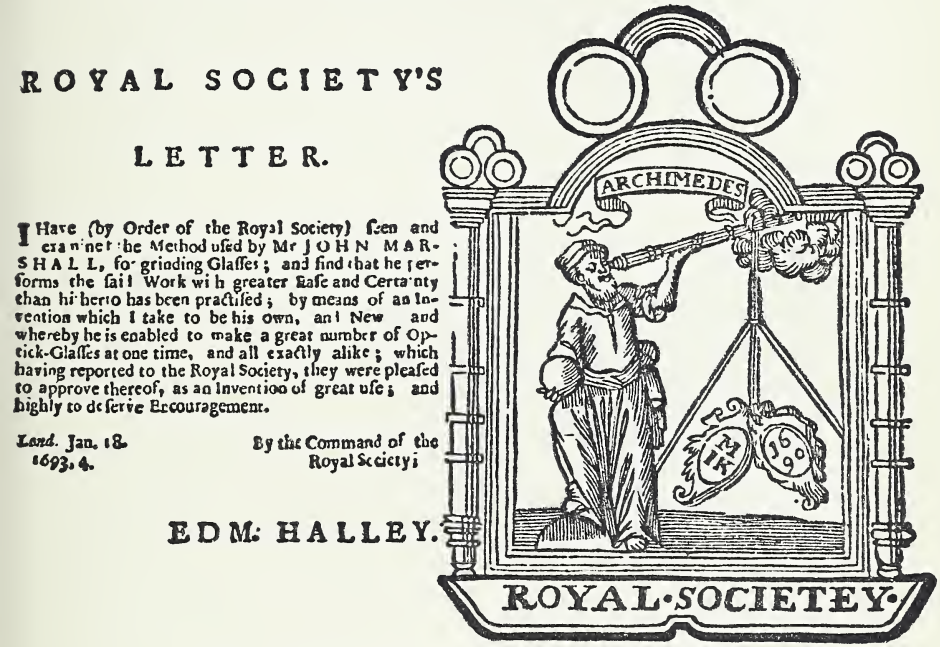
On April 18, 1692, Nathaniel Rolls began the sale of a 'Bibliotheca Ornatissima' at Will's (late Rolls's) coffee-house over against the North Door of St. Paul's in St. Paul's churchyard. He issued a New Catalogue on June 8, 1693.

The practice of holding book sales in coffee-houses secured an attendance, which was subsequently increased by bribery downright. For instance in 1704 at the Bear 'the Company was entertained with a Breakfast, and at noon with a good Dinner, and a glass of Wine, and then proceeded with the Sale in order to finish that Evening'.

Scientific Instruments

Of even greater interest than his books were his scientific instruments and their makers. Of these the most celebrated was Thomas Tompion, the greatest clock-maker of the century, who had faithfully carried out Hooke's suggestions for the improvement of pocket watches, and who seems still to have been in frequent conference with Hooke over the details of clock-work, the making of curv wheels for a 'logarithm compass', &c. The timepieces made by him for King William and his Queen are probably still in one of the royal palaces—perhaps at Hampton Court. As to opticians, he is still in touch with Christopher Cox, who ground a concavo-convex lens which made Hooke see that 'perspective' was 'practical' (Aug. 31, 1689). But most of his custom went to Yarwell, who sold him a 3-foot telescope for the very reasonable price of 4 shillings

in the preceding April, and a 4-foot telescope on September 26. Also two 6-foot glasses for 40 shillings on November 2, 1689, and two more for his friend Lodwick. Yarwell may have made the three object glasses which Hooke and Hunt tried on



ROYAL SOCIETY'S

LETTER.

I Have (by Order of the Royal Society) ſeen and examined the Method uſed by Mr JOHN MARSHALL, for grinding Glaſſes; and find that he performs the ſaid Work with greater Eaſe and Certainty than hitherto has been practiſed; by means of an Invention which I take to be his own, and New and whereby he is enabled to make a great number of Optick-Glaſſes at one time, and all exactly alike; which having reported to the Royal Society, they were pleaſed to approve thereof, as an Invention of great uſe; and highly to deſerve Encouragement.

Lond. Jan. 18. 1693, 4.

By the Command of the Royal Society;

EDM: HALLEY.

FIG. 5. JOHN MARSHALL'S ADVERTISEMENT, 1694.

Note. 'There are several persons who pretend to have the Approbation of the ROYAL SOCIETY, but none has, or ever had it; but myself as my Letter can testifie.'

July 16, and again in the cellar a week later with Pepys, who was doubtless mighty well pleased, for he asked Hooke to dinner on the very next day. They did further experiments in optics on October 4, 1689.

Hunt had evidently become an accomplished mechanic, for he fitted and soldered at least two

microscopes of brass for Hooke and made modules as and when required.

A biographical note of special interest is that John Marshall learnt his trade as apprentice to Dunning—a fact that is new to most historians of science, and with such good results that he became the best lens grinder in London. By 1690 he was established at the Archimedes and the Three Prospects, and by 1694 he had a valuable testimonial from the Secretary of the Royal Society, Edmund Halley.

Among Hooke's other instruments were a Ring-dial which got temporarily lost one September, a 2-foot wooden Quadrant which he lent to Halley, and a fine and large new quadrant specially made by Whitehead at a cost of £26 for Leipzig Observatory. Hooke would have seen to it that it was properly fitted with his fine wire sights.

One of the events of 1691 was that on May 19 Hooke and Dodsworth were granted a licence and privilege for the sole use of mixing metal so as to make glass for windows of more lustre and beauty than that heretofore made in England, red crystal glass of all sorts, and also the art of casting glass, particularly looking-glass plates much larger than ever blown in England, and on October 7 Robert Hooke was nominated Warden of the Company of Glassmakers, a trade the higher developments of which he had always been the first to encourage.

Architecture

The public has already been apprized of the greater architectural works successfully completed

by Hooke. In his *Life and Works* we have mentioned the great buildings of Montagu House, Bedlam, the College of Physicians, the Monument, and Aske's Hospital. Evelyn on April 18, 1678, wrote with high approval of his work. 'I went to see the new Bedlam Hospital, magnificently built and most sweetly placed in Morefields, since the dreadful fire in London.' It cost nigh £17,000. Hooke began it in April 1675 and finished it by July 1676. Miss M. I. Batten in *The Times* of February 14, 1935, has extracted from his Guildhall Diary allusion to much further work on City churches either with or independently of Wren. From this account, with Miss Batten's permission and that of *The Times*, the following passages are quoted:

Daily, almost, there are references in the Diary to Wren and his work, including, among other things, the City churches, and to the progress of the buildings upon which Hooke was engaged independently. Each consulted the other about his architectural work, though it would seem that, whereas Wren employed Hooke to assist him, the latter merely occasionally asked the advice of his more illustrious friend.

Aubrey's statement that Hooke and not Wren built the 'Piller on Fish-street-hill' is arresting because it must be remembered that Aubrey was an intimate friend of both. That Hooke had far more to do with the Monument than has so far been allowed becomes clear from his Diary. Throughout the whole time when the Monument was being discussed and built there are continual references to it, of which the following are interesting specimens. On October 19, 1673, is the entry 'Perfected module of Piller'. On September 21, 1675, 'At fish-street-hill on the top of the column'. On April 11, 1676, he was with Sir Christopher

Wren 'at the top of the Piller'. On October 14 he notes, 'scaffolds at fish-street-piller almost all struck', but a year later he went again 'to piller about scaffold', and on October 26, 1677, 'at fish-street-piller. Directed corners'. He was also very busy with the inscription, but at last, on June 17, 1678, he 'saw Monument inscription now finished'.

These entries, coupled with Hooke's autographed Survey of the Monument, make it appear that though Wren may have been the final authority who approved or vetoed proposals, there is probably more truth in Aubrey's statement than has hitherto been supposed. The extracts from the Orders of the City Lands Committee given in the Wren Society volume which deals with the Monument would seem to substantiate this.

Nearly all the City churches are mentioned in the Diary, those Hooke visited most frequently being St. Bene't Fink; St. Lawrence Jewry; St. Magnus; St. Stephen, Walbrook; St. Michael Bassishaw; St. Anne and St. Agnes; St. Martin, Ludgate. Sometimes Hooke went alone to a church, sometimes with Wren, as, for instance, on June 22, 1674, 'with Sr Chr. Wren to St. Peter's and St. Clement's. Ordered pulling down St. Bartholomew's Tower.' On July 12 he 'set out the church in Mark Lane'. A typical church visiting day may be quoted from April, 1675: 'Sr Chr. Wren and Mr. Woodroof here, to Dionis Back Church Buttolphs Walbrook Coleman Street St. Bartholomew's . . . with Sr Chr. W to Pauls.' Saturday, April 29, 1676, has the note: 'Agreed with Marshall about St. Bride's Church Tower.' May 2: 'to Sir Chr Wren with Filch and Scarborough agreed about Basingshaw Church.' February 13, 1678: 'to Sir Chr. Wren past Plaisterer for St. Lawrence. Proportion of estimate money of St. Peter's Cornhill.' April, 1680: 'by water to Sir Ch. Wren. Advised him about St. Clement's Church.'

The visits to St. Paul's are equally frequent. On October 14, 1672, Hooke was 'at Dr Wren's dined there saw big neat new furnished Rooms with him at Paules'; while on November 5 he 'saw module of St. Pauls approved by the

King at Pauls'. February 8, 1673, 'at Dr Wrens told me the designe of burying vaults under Pauls and of the addition of Library Body and porticos at the west'. In June, 1674, he notes: 'Pauls tabernacle ordered'; and in August he saw the Paul's 'module finished painting and gilding'. A few days later he was at Sir Christopher Wren's and 'spoke for Filch to be Bricklayer to St Pauls'. June, 1675, contains the entry: 'he (Wren) promised Filch at Paules he was making use of my principle about arches and altered his module by it'. On September 10, 1678, Hooke 'Received a note from Tillotson to Direct masons at Pauls, the Bishop of Londons kindness'. A year later comes another interesting entry: 'Walked with Sr. Chr Wr in the Park told him of double vaulting Pauls with cramps between.'

The truth of the matter seems to have been that Hooke was to all intents and purposes a partner with Wren in almost all his buildings. For besides the money that Hooke was receiving from the City of London for his work as surveyor Wren was also paying him, and at the rate of approximately £50 every six months, 'upon the City Churches account'. From November, 1674, to October, 1681, Hooke received from Wren something over £800, though, as some of the entries are 'due from Sr Chr. Wren' and others are 'received', sometimes after an interval of several months, it is not possible until a very thorough study of the Diary is made to be sure of the precise amount.

Many entries refer to Hooke's work as City Surveyor, as, for instance, the measuring of the Fleet Ditch, and it seems probable that he was responsible for the design of the two bridges over the Fleet. He and Wren also paid repeated visits to the wharves along the north bank of the Thames and attended committees 'about water line', thus showing that the quay proposed in the scheme for rebuilding London was still under discussion, though nothing had actually been done. Typical instances of work connected with the rebuilding of the City are to be found in February, 1680. 'Tuesday 10th . . . sent for to Ld Mayor about Cheapside Conduit. Fry 13th Aldermansbury view. view in the

Temple. Mund 16th at Sir Chr. Wren with Draught of Conduit. Tues. to Ld Mayor with Draught of Obelisk.' The new maps being made by Faithorne and Ogilby are also submitted to Hooke for his approval.

Hooke went with Wren not only to St. Paul's and the City churches but also to Temple Bar in 1674, Temple Hall in 1676, and even as far afield as Windsor in 1674. There are entries about the 'Kings tombs and chappell at Windsor'. In June, 1675, is the entry: 'At Sir Chr. Wr. order to . . . direct Observatory in Greenwich park for Sr J More he promised money.'

Sometimes there is an element of doubt as to which of the two, Wren or Hooke, was the principal architect of a building. There were certainly some jobs which belonged exclusively to Hooke, as, for instance, Bedlam, Montagu House, Lady Ranelagh's house, the College of Physicians, Dr. Busby's church, and various other buildings, and in these cases all the entries refer directly to the client or the workmen with no intermediary Sir Christopher Wren being consulted. But in one or two cases it is not quite clear whether Hooke, on receiving a commission, hurried off at once to consult his friend, or whether Hooke was doing the drawings according to Wren's instructions.

It seems likely that when Hooke began his Diary he had just completed some building at the Merchant Taylors'. On August 15, 1673, 'at Merchant Taylors hall design of screens and pavement accepted'. In October, 1675, he signs two certificates and lays out the garden.

There is no question that Hooke built *Bedlam*. On April 14, 1674, 'with Dr. Allen at Bedlam, viewed moorfields from new bedlam, drew up report for him'. At the beginning of July he was 'At Bridewell about Bedlam'. On 10th 'at Davys about Bedlam module'; 11th, 'at Bridewell agreed the module for Bedlam'. The entries thereafter are continuous and the progress of the building can be traced with the details of arrangements with carpenters and contractors.

The best known house that Hooke built was *Montagu*

House, in Bloomsbury, but what it looked like is at present a mystery. Illustrations of it, as designed by Hooke, are sometimes given, but these would appear to be merely the reverse side of the subsequent Montagu House which became the British Museum. The building of the house occupies a prominent place in the Diary, with continual references to progress, workmen, gardens, and so on. When the Diary can be properly studied it may be that some idea of its shape will become clear.

One of the buildings that have been attributed to Wren by tradition must now be recognized as by Hooke. This is the church at *Willen* in Bucks which was built during Dr. Busby's life and at his expense. Hooke as a boy lodged in Dr. Busby's house at Westminster, and they were therefore very old friends. On November 22, 1678, is the entry 'all day about Dr Busbys module of a church'. December 10, 'drew ground plat for Dr Busbys church'; and the next day 'to Dr Busbys dined with him . . . gave him another design for a church'. In February, 1679, he again dines with Dr. Busby and 'discoursed about church', and on Tuesday, March 25, 'dined with Dr Busby, Dr Fell, etc agreed about country church'. Early in April Hooke 'drew mouldings for Dr Busby'.

Another building that the Diary seems to indicate as the work of Hooke is the *Pepysian Building* at Magdalene College, Cambridge. It may have been that the building was erected from Hooke's designs or he may merely have been consulted in an advisory capacity, a common practice at that time.

During the years when Hooke was writing his Diary he built a *house* for *Lord and Lady Ranelagh*. The *Dictionary of National Biography* says that the only redeeming feature of Ranelagh's character was the pleasure he took in his new house and garden at Chelsea.

The *Physicians' College* and Theatre were certainly built by Hooke, and from the entries in the Diary and the fact that *Bridewell* and *Bedlam* were controlled by one Corporation and had the same President it seems probable that the

work done at Bridewell after the Fire and before the Diary opens was also by him. In the early years of the Diary there are frequent references to Bridewell. Occasional references to Christ's Hospital in conjunction with Wren also occur. Hooke also designed various houses for private people, a church for Sir J. Lowther, and a house, or more probably alterations to an existing house, for Lord Conway. —*The Times*, Feb. 14, 1935.

To these must now be added his designs for other country houses like the one for Mr. Vaughan in Essex, and his work at Westminster Abbey and in Westminster School undertaken at the request of his old schoolmaster and friend, Dr. Busby, for whom he had already built Willen church. Also his survey of the Thames wharves and improved river frontage and the circumstantial account of the preliminary discussions about the Hospital. During the two years for which the Diary is missing, Hooke was busily employed on the new buildings at Hoxton for the Haberdashers Company.

The Diary gives us the names of his coadjutors. As Surveyor he was frequently in consultation with old John Oliver, his senior by nearly twenty years, who had been one of the commissioners for rebuilding London after the fire—and, of course, with Wren, and his measurer Scarborough.

When working on Westminster Abbey Hooke was instructed by Dr. Busby, Dr. Birch, and other members of the Chapter. Messrs. Needham, Tufnell, Lake, Greg, and Collins took part in the building.

The new Hospital at Hoxton involved frequent interviews with members of the Court of the Haberdashers Company, Sir R. Levet, Sir T. Vernon, Sir

Peter Daniell, Messrs. Chancey, Allen, and Watts all taking a special interest in the progress of the work. Michael, the beadle, Cox, and Diton shared in its execution. And so, an abbreviated name often supplies a clue to the work upon which Hooke was engaged.

Fig. 6. Willen Church.
Built by Hooke for Dr. Busby.

According to entries in the Minute Book of the Company, in March 1688 the Court nominated the Master, R. Bodington, the Wardens, Sir J. Lawrence, Sir Peter Daniel, Sir Thomas Vernon, Messrs. Barron, Chancey, Hains, Chaplin, Allen, and Moseley to be a standing committee to consider a place for the use of Mr. Aske's Hospital, and in November following the Clerk was definitely instructed to wait upon Hooke and view a site at Islington to see

if it be proper and fit for the purpose. After protracted discussions the selection of the site and plans was settled by March 1690, when the first part of the Diary closes, but it appears likely that the actual building was not started before the summer of the following year, because there is a letter addressed to Richard Levett, Master of the Haberdashers Company, relating to the proposed work on the Hospital in which Hooke states that 'M[atthew] Banks [carpenter] does absolutely refuse to sign the contract which you gave order to Captain Mould to get ready for him'. This was dated June 20, 1691, but doubtless the difficulties were soon overcome, and the work got under weigh. Such good progress was made that by the end of 1692 the roof was already on.

The following minute of the Court is amusing:

> 9 Nov. 1692. This Court being informed that Doctor Hook surveyor of our Hospital desired that he might have some money paid him, it is ordered that when the Doctor shall bring the module of the Hospitall to the Hall and perform'd what is fitt to be done to the Hospitall by him by giving a just estimate of the work done, then this Court will take his said request into further consideration.

The formula was quite worthy of the Royal Society in its most bankrupt days when it was unable to pay its servants wages in cash, and when Hooke served it faithfully and well for the love of his friends and the honour of British science. Worrying discussions on the charges of the bricklayers and carpenters were continued until December of 1693. It is very possible that the N. Young so frequently mentioned may have been related to Wren's

mason, Nicholas Younge. Brown and Horne were bricklayers, T. Woodstock a carpenter, Valentine Housman a joiner, H. Doogood a plasterer, R. Bird a coppersmith, all reputable tradesmen who had been employed in work on the London churches.

A considerable number of the Diary entries are devoted to references to the sites or buildings with which Hooke was concerned either as architect or as Surveyor to the City. How important these entries may be has already been indicated by Miss Batten. Nearly all the City churches in building or already built were visited by Hooke, sometimes alone, sometimes with Sir Christopher Wren. Even in the case of the construction of St. Paul's Hooke's 'principle about arches' was employed. Certainly contributors to the volumes of the Wren Society have not made Hooke's status very clear.

Thanks to the courtesy of the British Museum I am now able to publish Hooke's survey of the wharves along the north bank of the Thames, and doubtless this may help to elucidate the deliberations of the City committees 'about water line'.

It may be stated that right up to the end of his astonishingly active life there was no falling off in the influence that he exerted on others. Good evidence for this is to be found in his success in getting a Bill for the rebuilding of Gresham College, already passed by the Commons, thrown out by the House of Lords. In his mind there was no doubt as to the mutual advantages of the old agreement between the Royal Society and the governors of the College. The Society was receiving extensive accommodation at an annual rent of £32 and the professors of

the College were being excused their annual subscriptions. But some members of the Council of the Society had grander ideas. Wren considered it to be necessary that 'the coaches of the Members (some of which are of very great quality)'—in modern parlance they were Rolls Royces—should have easy access to the Society's House. His view appealed to the new president, Newton, who taking office a few months after Hooke died, and possibly being tempersome, did little to lessen the friction that arose between the Society and the Gresham Committee. The end came when the Mercers Company wrote their ultimatum that they were resolved 'not to grant the Society any room at all' in Gresham College.

After a hunt lasting for several years, two adjoining houses were found in a court off Fleet Street, which met with Newton's approval, and thither the Society moved in 1710, Hooke's old friend Pif paying over £550, or rather more than a third of the total purchase money. But many of the Fellows of the Society were 'considerably dissatisfied' with the change.

In conclusion, I would urge that this Diary proves that although Hooke was a sick man, he worked hard right up to the point at which he could do no more, but it does not contain evidence of that overwarped mental outlook upon which his biographers are never tired of harping, viz. 'the jealousy which betrayed itself in so melancholy a manner'. It is to be desired that the whole position, more especially in the case of his relations to Newton, should be again analysed. I think that it will be found that

they lived in two entirely separate worlds, that Hooke was far too busy to bother about Newton, but that Newton spent many hours in brooding over his exaggerated view of what he regarded as Hooke's pretensions, even as has been stated by Halley in his letter of June 29, 1686, to Newton. Certainly if Hooke had been told that biographical observations by Richard Waller, the 'Wall' of his country walks, were going to be made the basis for accusations of jealousy against Newton, he would have smiled a melancholy smile at the suggestion.

The Royal Society of Hooke was not the Royal Society of Newton. Hooke was obviously not concerned with Newton's work at Cambridge, nor his membership of the House of Commons, nor his Mastership of the Mint. Hooke, while alive, was all in all to the Royal Society. Newton had never even been a member of its Council. Hooke in his later years hardly even mentions him. The author of the *Principia* might have been practically non-existent.

The atmosphere of Newton's Royal Society at Crane Court was so obviously unsympathetic to the preservation of the tradition of the parent institution at Gresham College that there was a regrettable break of continuity, the outward and visible sign of which is the negative one that the Royal Society has no portrait of its greatest servant, the man whom all members, who knew him, unanimously lamented as one of their 'greatest ornaments and promoters of science'.

Let us think of him, as Pepys did, as a boon companion, 'Mr. Hooke, who is the most, and promises the least, of any man in the world.'

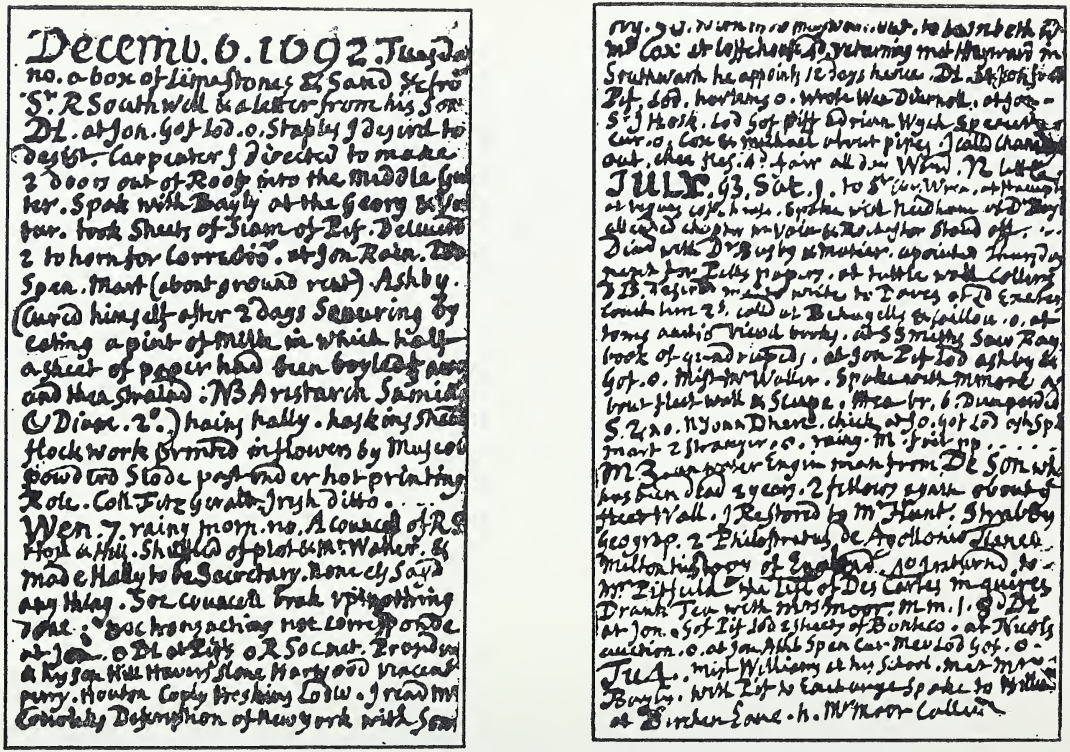


Fig. 7. Two Pages from Hooke's Diary.

December 6–7, 1692, p. 194.
Careful script.

July 1–4, 1693, p. 225.
Hurried script.

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An ATTEMPT FOR THE EXPLICATION Of the PHÆNOMENA,

Obſervable in an Experiment Publiſhed by the Honourable

ROBERT BOYLE, Eſq;

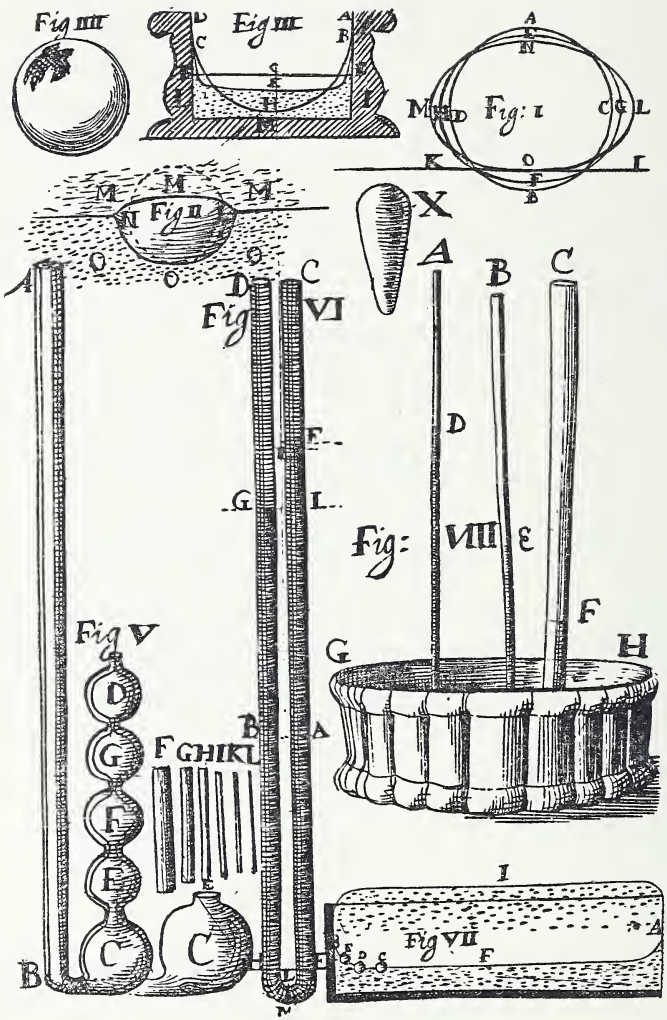
In the XXXV. Experiment of his Epiſtolical Diſcourſe touching the *AIRE*.

In Confirmation of a former Conjecture made by *R. Hooke*.

Nos cum non ſemper magna referre poſſimus, vera tamen ſed rara recitamus; neq; enim minori miraculo in parvis Natura ludit quam in magnis, Cardan de Vari. *L.8. Cap.* 43.

Tum vero de Scientiarum progreſſu ſpes bene fundabitur, quum in hiſtoriam naturalem recipientur & aggregabuntur complura experimenta, quæ in ſe nullius ſunt uſus, ſed ad inventionem cauſarum & axiomatum tantum faciunt, Verulamii Nov. Org. Aph. 99.

LONDON,
Printed by *J. H.* for *Sam. Thomſon* at the Biſhops Head in St. *Pauls* Church-yard, 1661.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I

To the Honourable *Robert Boyle*, Esq;

Sir,

THe honour you were pleased to do me, in putting me upon this enquiry, did not a little animate and encourage me to persevere in what I had begun with so happy an Omen. My good Success therefore herein, if any, is wholly to be ascribed to your self; as being the first Excitor and chief Abettor of it. And therefore I hope that may be my excuse, for craving You so great a Patron thereunto, in that I could not have entitled it to any other without a manifest Injury to Your Honour; whose Graci-

ous countenancing of it, juſtly requires my utmoſt Gratitude. I muſt therefore with the *Perſian* offer to you, as he to the Sun, what he believes himſelf to have received from it. And therefore I truſt my endeavouring to ſoar aloft with the Eagle, to enjoy the Influence of the moſt Glorious Light of the world, will find a Pardon, and be judged much better, than a hovering and fluttering with the ſilly Fly about the dim and fading Flame of a candle, that at beſt, will but ſinge thoſe wings that raiſed it ſo high, and in ſtead of giving it more Vigour, will wholly diſinable it for the like Future Attempts. I am not a little ſenſible indeed, that the Minuteneſs both of the thing and its Author, may ſeem to make it a Preſent very unfit

unfit for ſo great a Perſonage. But yet I am in hope, that like the poor man, that ſeeing many Noble and Rich, haſting to meet *Artaxerxes*, with their Splendid and Sumptuous Gifts, would needs carry ſomthing too, and though 'twas but a little water fetch'd out of the River in the Palms of his Hands, yet addreſſing himſelf, he preſented it with an unexpected acceptance, I alſo may be happy in the like ſucceſs, with this Oblation, which is but a few drops taken out of the River (as I may ſo ſpeak) of the *Phænomena* of Nature (which paſſes by, and is ſcarce regarded by any, though free for all) *that is*, ſome few obſervations, which though but mean and obvious, yet I think ſcarce diligently taken notice of by any; and though

jumbled together in a careleſs, if any Method, yet the beſt I had leiſure to throw it into. And though delivered in a Style nothing elegant, yet I hope (which was my greateſt aim) it may ſerve (with your favourable conſtruction of it) to ſignifie the deſire I have of expreſſing my ſelf moſt affectionately to be

Sir,

Your Honours moſt Faithful

and moſt Humble Servant,

Robert Hooke.

The

The Experiment, as I find it ſet down in the fore-mentioned Epiſtle, runs thus;

AN Eminent Mathematician told me one day, that ſome inquiſitive Frenchmen (whoſe Names I know not) had obſerved, that in caſe one end of a ſlender and perforated Pipe of Glaſs, as A. B. or C. *be dipt in water,* as in that conteined in the Veſſel, G. H. of the 8th. Figure, *the Liquor will aſcend to ſome height in the Pipe,* as to D. E. or F. *though held perpendicular to the plain of the water. And to ſatisfie me, that he miſ-related not the Experiment, he ſoon after brought two or three ſmall Pipes of Glaſs, which gave me the opportunity of trying it, though I had the leſs reaſon to diſtruſt it, becauſe I remember I had often in the long and ſlender Pipes of ſome Weather-*

Glasses, which I had caused to be made after a somwhat peculiar fashion, taken notice of the like ascension of the Liquor, though (presuming it might be casual) I had made but little reflection upon it. But after this trial, beginning to suppose, that though the water in these Pipes that were brought me, rise not above a quarter of an Inch (if near so high) yet, if the Pipes were made slender enough, the water might rise to a very much greater height; I caus'd several of them to be, by a dexterous hand, drawn out at the flame of a Lamp, in one of which that was almost incredibly slender, we found that the water ascended (as it were of it self) five Inches by measure, to the no small wonder of some famous Mathematicians, who were Spectators of some of these Experiments And this height the Water reached to, though the Pipe were held in as erected a posture as we could: For if it were inclined, the water would fill a greater part of it, though not rise higher in it And we also found, that when the inside of the Pipe was wetted beforehand, the water would rise much better than otherwise: but we caused not all our slender Pipes to be made straight, but some of them crooked, like Syphons; *And having immersed the*

the ſhorter Leg of one of theſe into a Glaſs that held ſome fair water, we found as we expected, that the water ariſing to the top of the Syphon, *though that were high enough, did of it ſelf run down the longer Leg, and continue running like an ordinary* Syphon. *The cauſe of this aſcenſion of the water, appeared to all that were preſent, ſo difficult, that I muſt not ſtay to enumerate the various Conjectures that were made at it, much leſs to examine them; eſpecially having nothing but bare Conjectures to ſubſtitute in the room of thoſe I do not approve. We tried indeed, by conveying a very ſlender Pipe and a ſmall Veſſel of water into our Engine, whether or no the Exſuction of the ambient Air would aſſiſt us to find the cauſe of the aſcenſion we have been ſpeaking of: But though we employed red Wine in ſtead of water, yet we could ſcarce certainly perceive through ſo much Glaſs, as was interpoſed betwixt our eyes and the Liquor, what happened in a Pipe ſo ſlender, that the redneſs of the Wine was ſcarce ſenſible in it. But as far as we could diſcern, there happened no great alteration to the Liquor: which ſeemed the leſs ſtrange, becauſe the Spring of that Air that might depreſs the*

water

water in the Pipe, was equally debilitated with that which remained to press upon the Surface of the Water in the little Glasse. Wherefore, in favour of his ingenuous Conjecture, who ascribed the Phænomenon, *under consideration to the greater pressure made upon the water by the Air without the Pipe, than by that within it, (where so much of the water (consisting perhaps of Corpuscles more pliant to the internal surfaces of the glaß) was contiguous to the sides) it was shown, that in case the little Glass-Vessel that held the water, of which a part ascended into the slender Pipe, were so closed, that a man might with his mouth suck the Air out of it, the water would immediatly subside in the small Pipe. And this would indeed infer, that it ascended before only by the pressure of the incumbent Air. But that it may (how justly I know not) be objected, that peradventure this would not happen, in case the upper end of the Pipe were in a* vacuum: *And that 'tis very probable the water may subside, not because the pressure of the internal Air is taken off by exsuction, but by reason of the spring of the external Air, which impels the water it finds in its way to the Cavity deserted by the other*

Air,

Air, and would as well impel the ſame water upwards, as make it ſubſide, if it were not for the accidental poſture of the Glaſſes. However, having not now leiſure to examine any further this Matter, I ſhall only mind your Lordſhip, that if You will proſecute this Speculation, it will be pertinent to find out likewiſe, Why the ſurface of Water (as is manifeſt in Pipes) uſes to be concave, being depreſſed in the middle, and higher on every ſide? and why in Quick-ſilver on the contrary, not only the ſurface is wont to be very convex, or ſwelling, in the middle; but if you dip the end of a ſlender Pipe in it, the ſurface of the Liquor (as 'tis called) will be lower within the Pipe, than without. Which Phænomena, *whither, and how far, they may be deduced from the Figure of the Mercurial Corpuſcles, and the Shape of the Springy Particles of the Air, I willingly leave to be conſidered.*

An

An Attempt for the Explication of this New Experiment.

MY former Conjecture, *That the unequal height of the ſurfaces of the water proceeded from the greater preſſure made upon the water by the Air without the Pipes* A. B. C. *than by that within them*; I ſhall endeavour to confirm from the Truth of the two following Propoſitions.

The firſt of which is, That an unequal preſſure of the incumbent Air, will cauſe an unequal height in the waters Surfaces.

And the Second is, That in this Experiment there is ſuch an unequal preſſure.

Now that the Firſt is true, the following Experiment will evince: For if you

you take any Veſſel ſo contrived; as that you can at pleaſure either increaſe or diminiſh the preſſure of the Air upon this or that part of the Superficies of the water, the equality of the height of thoſe parts will preſently be loſt. And that part of the Superficies that ſuſtains the greater preſſure, will be inferiour to that which undergoes the leſs: A fit Veſſel for this purpoſe, will be an inverted Glaſs *Syphon*, ſuch an one as is deſcribed in the Sixth Figure. For if into it you put a quantity of Water, ſuppoſe enough to fill it as high as the Line *A*, *B*. and applying your mouth to one end, as to *D*. you ſhall find, that by gently blowing in at it, you ſhall depreſs the Superficies *B*. and thereby raiſe the oppoſite Superficies *A*. to a conſiderable diſtance; and by gently ſucking, you may perceive the clean contrary effects produced.

Next, That there is ſuch an unequal preſſure, I ſhall prove from this, that there is a much greater inconformity or incongruity (call it what you pleaſe) of Air to Glaſs, and ſome other Bodies, than there is of Water to the ſame.

What I mean hereby, I ſhall in ſhort explain,

explain, by defining conformity or congruity to be a property of a fluid Body, whereby any part of it is readily united or intermingled with any other part, either of it ſelf, or of any other Homogeneal or Similar, fluid, or firm and ſolid body: And unconformity or incongruity to be a property of a fluid, by which it is kept off and hindred from uniting or mingling with any heterogeneous or diſſimilar, fluid or ſolid Body.

This laſt property, any one that hath been obſervingly converſant about fluid Bodies, cannot be ignorant of: For (not now to mention ſeveral Chimical Spirits and Oyles which will very hardly, if at all, be brought to mix with one another, inſomuch that there may be found ſome 8 or 9, or more, ſeveral diſtinct Liquors, which ſwimming one upon another, will not be brought to mix) we need ſeek no further for Examples of this kind, than to obſerve the drops of rain falling through the air; and the Bubbles of air which are by any means conveyed under the ſurface of the Water; or a drop of common Sallet Oyl ſwimming upon water: In all which, and many more Examples that might be enumerated, of this

this ſort, the incongruity of two fluids is eaſily diſcernable. And as for examples of Congruity or Incongruity of Liquids one with another, or with ſeveral kinds of firm, or ſolid Bodies, they have long ſince been taken notice of, and called by the Names of Drieneſs and Moyſture, (though theſe two Names are not comprehenſive enough, they being common y uſed to ſignifie only the adhering or not adhering of water to ſome other ſolid Bodies) of this kind we may obſerve that water will more readily wet ſome woods than others; and that water let fall upon a Feather, the whiter ſide of a Colwort, and ſome other leaves, or upon almoſt any unctuous or reſinous ſuperficies, *&c.* will not at all adhere to them, but eaſily tumble off from them, like a ſolid Bowl; whereas if dropt upon Linnen, Paper, Clay, green Wood, *&c.* it will not be taken off, without leaving ſome part of it behind adhering to them: So Quickſilver, which will very hardly be brought to ſtick to any vegetable body, will readily adhere to, and mingle with ſeveral clean metalline bodies.

Now from what cauſe this congruity or

or Incongruity of bodies one to another, does proceed, whether from the Figure of their conſtituent Particles, or interſperſed pores, or from the differing motions of the parts of the one and the other, as whether circular, undulating, progreſſive, *&c.* whether I ſay from one, or more, or none of theſe enumerated cauſes, I ſhall not here determine; It being an enquiry more proper to be followed and explained among the general Principles of Philoſophy, whither at preſent I ſhall refer it; as fearing leſt it might here ſeem abſurd, without the concatenation of ſeveral other Principles to explicate it; and knowing it likewiſe ſufficient for this enquiry to ſhew, that there is ſuch a property, from what cauſe ſoever it proceeds.

Theſe Properties therefore (alwaies the concomitants of fluid bodies) produce theſe following viſible Effects:

Firſt, They unite the parts of a fluid to its homogeneal Solid, or keep them ſeparate from its heterogeneal: Hence Quickſilver will (as we noted before) ſtick to Gold, Silver, Tin, Lead, *&c.* and unite with them but roule off from wood, ſtone, glaſs, if never ſo little ſcituated

out

out of its horizontale Paralelisme; and water that will wet salt and dissolve it, will slip off from Tallow, or the like, without at all adhering; as it may likewise be observed to do, upon a dusty superficies. And next they cause the parts of homogeneal fluid bodies readily to adhere together and mix, and of heterogeneal, to be exceeding averse thereunto. Hence we find, that two small drops of water, on any superficies they can roule on, will, if they chance to touch each other, readily unite and mix in one 3d. Globule or drop: the like may be observed with two small Bowls of Quicksilver upon a Table or Glass, provided the surfaces of those Globule be not dusty; and with two drops of Oyl upon fair water, *&c.* And further, water put unto wine, salt water, Vinegar, spirit of wine, or the like, does immediatly (especially if they be shaken together) disperse it self all over them: hence on the contrary also we find, that water powred upon Quicksilver, and Oyl upon that water, and Air upon that Oyl, though they be stopt closely up into a Bottle, and shaken never so much, they will by no means loag suffer any of their

bigger parts to be united or included within any of the other Liquors (by which recited Liquors, may be plainly enough represented the 4 Peripaterical Elements.) From this property 'tis that a drop of water does not mingle with, or vanish into Air, but is driven (by that fluid equality protruding it on every side) and forc't into as little a space as it can possibly be contained in, namely, into a Round Globule. So likewise a little air blown under the water, is united or thrust into a Bubble, by the ambient water. And a parcel of Quicksilver enclosed with Air, water, or almost any other liquor, is formed into a round Ball.

Now the cause why all these included fluids newly mentioned, or as many others as are wholly included within a heterogeneous fluid, are not exactly of a spherical Figure (seeing that if caused by these Principles only, it could be of no other) must proceed from some other kind of pressure against the two opposite flatted sides. This adventitious or accidental pressure may proceed from divers causes, and accordingly must diversifie the Figure of the included hetero-

geneous

geneous fluid: For ſeeing that a body may be included either with a fluid only, or only with a ſolid, or partly with a fluid and partly with a ſolid, or partly with one fluid, and partly with another, there will be found a very great variety of the terminating ſurfaces, much differing from a Spherical, according to the various reſiſtance or preſſure that belongs to each of theſe encompaſſing mediums.

Which Properties may in general be deduced from two heads, *viz.* Motion, and Reſt. For either this Globular Figure is altered by a natural Motion, ſuch as is Gravity, or a violent, ſuch as is any accidental motion of the fluids, as we ſee in the wind rufling up the water, and the purlings of Streams, and foaming of Cartaracts, and the like, which becauſe they are ſo obvious and eaſily underſtood, and ſo little pertinent to our preſent enquiry, I ſhall refer to ſome other intended Speculations, to which they do more properly belong. Or thirdly, By the Firmneſs and Stability of the ambient Solid. For if the including Solid be of an angular or any other irregular Form, the included fluid will

be near of the like, as a Pint Pot full of water, or a Bladder full of Air. And next, if the including or included fluid have a greater gravity one than another, then will the globular Form be depreſt into an Eliptico-ſpherical: As if for example, we ſuppoſe the Circle *A. B. C. D.* in the firſt Figure, to repreſent a drop of water, Quick ſilver or the like, included withthe Air, or the like, which ſuppoſin gthere were no gravity at all in either of the fluids, or that the contained and containing were of the ſame weight, would be equally depreſt into an exactly ſpherical body (the ambient preſſing equally againſt every ſide of it) But ſuppoſing either a greater gravity in the included, by reaſon whereof the parts of it being preſt from *A.* towards *B.* and thereby the whole put into motion, and that motion being hindred by the reſiſtance of the ſubjacent parts of the ambient, the globular Figure, *A.D. B. C.* will be depreſt into the Eliptico-ſpherical, *E.G. F. H.* For the ſide *A.* is detruded to *E.* by the Gravity, and *B.* to *F.* by the reſiſtance of the ſubjacent medium: and therefore *C.* muſt neceſſarily be thruſt to *G.* and *D.* to *H* Or elſe

ſuppo-

ſuppoſing a greater gravity in the ambient, by whoſe more than ordinary preſſure againſt the under ſide of the included globul, *B*. will be forced to *F*. & by its reſiſtance of the motion upwards, the ſide *A*. will be depreſt to *E*. and therefore *C*. being thruſt to *G*. & *D*. to *H*. the globular Figure by this means alſo will be made an Eliptico-ſpherical. Next if a fluid be included partly with one, and partly with another fluid, it will be found to be ſhaped diverſly, according to the proportion of the gravity and incongruity of the 3 fluids one to another, as in the ſecond Figure, let the upper *M M M* be Air, the middle *L. M. N. O* be common Oyle, the lower O. O. O. be water, the Oyl will be form'd not into a ſpherical Figure, ſuch as is repreſented by the pricked Line, but into ſuch a Figure as L. M. N. O. whoſe ſide L. M. N. will be of a flatter Eliptical Figure, by reaſon of the great diſproportion between the Gravity of Oyle and Air, and the ſide L. O. M. of a rounder, becauſe of the ſmaller difference between the weight of Oyle and water. Laſtly, The globular Figure will be changed, if the ambient be

partly fluid and partly ſolid. And here the termination of the incompaſſed fluid towards the incompaſſing is ſhap'd according to the proportion of the congruity or incongruity of the fluids to the ſolids, and of the gravity and incongruity of the fluids one to another. As ſuppoſe the ſubjacent medium that hinders an included fluid's deſcent, be a ſolid, as let K. L. in the firſt Figure repreſent the ſmooth ſuperficies of a Table, E. G. F. H. a parcel of running Mercury, the ſide G. F. H. will be more flatted, according to the proportion of the incongruity of the Mercury and Air to the Wood, and of the gravity of Mercury and Air one to another; The ſide G. E. H. will likewiſe be a little more depreſt by reaſon the ſubjacent parts are now at reſt which were before in motion [I have not here time, nor is it much to my preſent purpoſe, to ſhew how much the Figure of the deſcending fluid may be altered from this Eliptico ſpherical Figure, by a very ſmall reſiſtance of the ſubjacent medium, for the advantage the under parts of the deſcendent may have as to the acceleration of their motions of deſcent, may be able to draw

draw them out into the Form of the Figure X.] Or further in the 3d. Figure, let A. I. L. D. represent an including solid medium of a cylindrical shape (as suppose a small Glass Jar) Let F. G. E. M. represent a contain'd fluid, as water; this towards the bottom and sides, is figured according to the concavity of the Glass: But its upper Surface, which by reason of its gravity, (not considering at all the Air above it, and so neither the congruity or incongruity of either of them to the Glass) should be terminated by part of a Sphear whose diameter should be the same with that of the earth, which to our sense would appear a straight Line, as F.G E. Or which by reason of its having a greater congruity to Glasse than Air has, (not considering its Gravity) would be thrust into a concave Sphear, as C.H.B. whose diameter would be the same with that of the concavity of the Vessel. But by reason of its having a greater gravity than the Air, and having likewise a greater congruity to Glass, than the Air has; from hence I say it is terminated, by a concave Eliptico-spherical Figure, as C. K. B. For by its congruity it ea-

ſily conforms it ſelf, and adheres to the Glaſs, and conſtitutes as 'twere one containing body with it, and therefore ſhould thruſt the contained Air on that ſide it touches it, into a ſpherical Figure, as B. H. C. but the motion of Gravity depreſſing a little the Corners B. and C. reduces it into the aforeſaid Figure, C. K. B. Now that 'tis the greater congruity of one of the two contiguous fluids, than of the other, to the containing ſolid, that cauſes the ſeparating ſurfaces of the two liquids to be thus or thus figured: And that 'tis not becauſe this or that figurated ſurface is more proper, natural or peculiar to one of theſe fluid bodies, than to the other, will appear from this, that the ſame fluids will by being put into differing ſolids, change their ſurfaces for the ſame water, which in a Glaſs or wooden Veſſel will have a concave ſurface upwards, and will riſe higher in a ſmaller than greater Pipe, the ſame water, I ſay, in the ſame Pipes greas'd over or oyled, will produce quite contrary effects, for it will have a protuberant and convex ſurface upwards, and will not riſe ſo high in ſmall, as in bigger Pipes: Nay,

in

in the very ſame ſolid Veſſel, you may make the very ſame two contiguous Liquids to alter their Surfaces; for taking a ſmall Wine Glaſs, or ſuch like Veſſel, and pouring water gently into it, you ſhall perceive the ſurface of the water all the way concave, till it riſe even with the top, when you ſhall find it (if you gently and carefully poure in more) to grow very protuberant and convex; the reaſon of which is plain, for that the ſolid ſides of the containing body are no longer extended, to which the water does more readily adhere, than the air; but it is henceforth to be included with air, which would reduce it into a hemiſphere, but by reaſon of its gravity, it is flatted into an Oval. Quickſilver alſo which to Glaſs is more incongruous than Air (and thereby being put into a Glaſs-Pipe, will not adhere to it, but by the more congruous air will be forced to have a very protuberant ſurface, and to riſe higher in a greater than a leſſer Pipe) this Quickſilver to clean Metal, eſpecially to Gold, Silver, Tin, Lead, *&c.* Iron excepted, is more congruous than Air, and will not only ſtick to it, but have a concave Surface like water,

and

and rise higher in a less, than in a greater Pipe.

In all these Examples, 'tis evident, that there is an extaordinary and adventitious force by which the globular Figure of the contain'd heterogeneous fluid is altered, neither can it be imagined, how it should otherwise be of any other Figure than Globular: For being by the heterogeneous fluid equally protruded every way, whatsoever part is protuberant, will be thereby depreſt. From this cause it is that in its effects it does very much resemble a round Spring (such as a Hoop) I shall not here speak of the nature of Springs in general, as being more proper for another Discourse, but only take notice, that as in a roundSpring there is required an additional pressure against two opposite sides, to reduce it into an Oval Form, or to force it in between the sides of a Hole whose Diameter is less than that of the Spring, there must be a considerable force or protrusion against the concave or inner side of the Spring, so to alter this spherical constitution of an included fluid body, there is required more pressure against opposite sides to

reduce

reduce it into an Oval, and to preſs it into an Hole leſs in Diameter than it ſelf, it requires a greater protruſion againſt all the other ſides. What degrees of force are requiſite to reduce them into longer and longer Ovals, or to preſs them into leſs and leſs holes, I have not yet experimentally calculated; but thus much by experiment I find in general, that there is alwaies required a greater preſſure to cloſe them into longer Ovals, or protrude them into ſmaller holes: the neceſſity and reaſon of this, were it requiſite, I could eaſily explain: but being not ſo neceſſary; and requiring more room and time than I have for it at preſent, I ſhall here omit it; and proceed to ſhew, that this may be preſently found true, if Experiment be made with a Round Spring (the way of which trials can ſcarce be miſt by any one, at all converſant in Experiments) And with the fluid bodies of Mercury, Air, *&c.* the way of trying, which will be ſomwhat more difficult; and therefore I ſhall in brief deſcribe it. He therefore that would try with Air, muſt firſt be provided of a Glaſs-Pipe, made of the ſhape of that in the fifth Figure, where-

of

of the ſide A. B. repreſents a ſtraight Tube of about 3 foot long (C. D.) repreſents an other part of it, which conſiſts of C. E. F. G. D. *&c.* ſeveral round Bubles ſo ordered, that there is left a paſſage out of each of them, into its next, of which paſſages, that between C. and E. is to be the biggeſt; (as for example, $\frac{1}{6}$ of an Inch in Diameter) that between E. and F. is to be leſs, (*viz.* $\frac{1}{8}$ of an Inch) that between F. and G. ($\frac{1}{12}$ of an Inch) that between G. and D. ($\frac{1}{16}$) that above D ($\frac{1}{24}$ or half a Line) there may be added as many more as the experimenter ſhall think fit, with paſſages or interjacent holes continually decreaſing by known quantities ſo far as his ſenſes are able to help him; I ſay ſo far, becauſe there may be made Pipes ſo ſmall that it will be impoſſible to perceive the perforation with ones naked eye, though by the help of a Microſcope, it may eaſily enough be perceived: Nay, I have made a Pipe perforated from end to end, ſo ſmall, that with your naked eye you would very hardly have ſeen the body of it, inſomuch that I have been able to knit it up into a knot without breaking, but this by the by.

To

To proceed then, for the trial of the Experiment, the Experimenter muſt place the Tube (A. B.) perpendicular, and fill the Bubble E. with the paſſage beneath it, full of water, but leave the bubble C. full of Air, and then gently pouring in water into the Pipe A. B. he muſt obſerve diligently how high the water will riſe in it before it protrude the Bubble of Air, (C.) through the narrow paſſage into E. and denote exactly the height of the Cylinder of water, then filling the bubble F. with water and E. with air, he may proceed as formerly, denoting likewiſe the height of the Cylinder of water, able to protrude the Bubble E. through the paſſage E. F. the like may he do with the next paſſage, and the next, *&c.* as far as he is able, then comparing the ſeveral heights of the Cylinders, with the ſeveral holes through which each Cylinder did force the air (having due regard to the Cylinders of water in the Tube C. D) it will be very eaſie to determine, what force is requiſite to preſs the Air into ſuch and ſuch a hole, or (to apply it to our preſent experiment) how much of the preſſure of the Air is taken off by its ingreſs into

ſmaller

ſmaller and ſmaller holes. Now becauſe to prepare this Inſtrument, is ſomthing difficult (by reaſon of the holes which will be found very troubleſom to be meaſured) it will be better to prepare ſmall Glaſs-Pipes, ſuch as F. G. H. I. K. L. of the ſeveral Bores deſired, each of them about an Inch long, and having a Pipe, (ſuch as is deſcribed in the 5th. Figure) with only one Bubble, as (C) with the paſſage (C.E) and proceeding as before, to force the Air firſt through that; then to faſten into it with Cement the next ſmaller Pipe, and try with it as with the other; then a leſs, and ſo to the leaſt, denoting, comparing, and collecting as before. From theſe, and other ſuch trials, it will be found very evident, that to force the air or other fluid into a ſmaller hole, of an incongruous Solid, there is required a greater force, than there is requiſite for the protruſion of it into a bigger. Come we therefore to the explanation of the *Phænomena*, in the experiment of the riſing of water in a ſmaller Pipe; And from the application of what has been ſaid to the entring of the Air into the bigger hole of the Veſſel and into the ſmaller

hole

hole of the Pipe, we ſhall clearly find, that there is a greater preſſure of the air upon the water in the Veſſel or greater Pipe, than there is upon that in the Leſſer Pipe: For ſince the preſſure of the air every way is found to be as much as is able to preſs up and ſuſtain a Cylinder of Quickſilver of two foot and a half high, or thereabouts; And ſince of this preſſure ſo many more degrees are required to force the Air into a ſmaller than into a greater hole, that is full of a more congruous fluid. And laſtly, ſince thoſe degrees that are requiſite to preſs it in, are thereby taken off from the Air within, and the Air within left with ſo many degrees of preſſure leſs than the Air without; it will follow, that the Air in the leſs Tube or Pipe, will have leſs preſſure againſt the ſuperficies of the water therein, than the Air in the bigger: which was the minor Propoſition to be proved.

The Concluſion therefore will neceſſarily follow, *viz.*

That this unequal preſſure of the Air cauſed by its protruſion into unequal holes, is a cauſe ſufficient to produce this effect, without the help of any other concurrent,

concurrent, and therefore is the principal, (if not the only) cause of this *Phænomenon.*

This therefore being thus explained, there will be divers *Phænomena* explicable thereby, as, the Rising of Liquors in a Filtre, the rising of Spirit of Wine, Oyl, Melted Tallow, *&c.* in the Weake of a Lamp, (though made of small Wire, Threeds of Asbestus, Strings of Glass, or the like) the Rising of Liquors in a Spunge, piece of Bread, perhaps also the ascending of the Sap in Trees and Plants, through their small, and some of them imperceptible Pores, (of which perhaps I may say more on another occasion) at least the passing of it out of the earth into their roots. I know not also whether it will be requisite to add what things occurr'd to my thoughts, when I had these *Phænomena* under consideration; which I shall only propound as *Queries*, that may serve as hints to some further discovery, and not as Axioms.

In short, they were these;

First, Upon the consideration of the congruity and incongruity of Bodies, as to touch, I found also the like congruity

gruity and incongruity (if I may so speak) as to the Transcursion of the Raies of Light: For in this regard, water (not now to mention other Liquors) seems nearer of affinity to glass than Air, and Air than Quicksilver: For an obliqne Ray out of Glass, will pass into water with very little refraction from the perpendicular, but none out of Glass into Air, excepting a direct, will pass without a very great refraction from the perpendicular, nay any oblique Ray under 30 degrees, will not be admitted into the Air at all, but reflected. And Quicksilver will neither admit oblique or direct, but reflect all; so that Quicksilver as to the transmitting of the Raies of Light, seems to be of a quite differing constitution, from that of Air, Water, Glass, &c. and to assimilate most those opacous and strong reflecting bodies of Metals: and as to the property of cohesion or congruity, it seems to keep the same order.

A Second thing (which was hinted to me, by the consideration of the included fluid's globular form, caused by the protrusion of the ambient hetero-

geneous fluid) was whether the *Phænomena* of gravity might not by this means be explained, by ſuppoſing the Globe of Earth, Water and Air to be included with a fluid, heterogeneous to all and each of them, which is ſo ſubtil, as not only to be every where interſperſed through the Air, (or rather the air through it) but does pervade the bodies of Glaſs, and even the cloſeſt Metals, by which means it does endeavour to detrude all earthly bodies as far from it as it can; and partly thereby, and partly by other of its properties (of which I may ſome other time give a fuller account) move them towards the Center of the Earth. Now that there is ſome ſuch fluid, I could produce many experiments and Reaſons, that do ſeem to prove. But becauſe I ſee it would ask ſome time and room to ſet them down and explain them, and to conſider and anſwer all the Objections (many whereof I foreſee) that may be alledged againſt it; and becauſe I know a more likely hypotheſis for gravity, which I can make out by experiment; I ſhall at preſent proceed to other Queries, contenting my ſelf to have here only given a hint

hint of what I may elſwhere determine.

A Third Query then was; whether the heterogeneity of the ambient fluid may not be accounted a ſecondary cauſe of the roundneſs or globular form of the greater bodies of the world, ſuch as are thoſe of the Sun, Stars and Planets, the ſubſtance of each of which ſeems altogether heterogeneous to the circum-ambient fluid æther?

A Fourth was; Whether the globular Form of the ſmaller parcels of matter here upon the Earth, as that of Fruits, Pebbles or Flints, *&c.* (which ſeem to have been a Liquor at firſt) may not be caus'd by the heterogeneous ambient fluid. For thus we ſee that melted Glaſs will be naturally form'd into a round Figure; ſo likewiſe any ſmall Parcel of any fuſible body, if it be perfectly encloſed by the Air, will be driven into a globular Form, and when cold, will be found a ſolid Ball. This is plainly enough manifeſted to us by their way of making ſhot with the drops of Lead, or a ſhower of Rain congealed in its falling into Hailſtones; and if you gently let fall a drop of water upon ſmall ſand or duſt, you ſhall find as 'twere an artificial round

ſtone quickly generated. I cannot upon this occaſion omit the mentioning of the ſtrange kind of Grain which I have obſerved in a ſtone brought from *Kettering* in *Northamptonſhire*, and therefore called by Maſons *Kettering-Stone*, like to which are found alſo at *Tormanton*, neer to *Sudberry* in *Glocesterſhire*. For I found it to conſiſt of a great number of ſmall and almoſt globular parcels of matter, which to my naked eye look'd much like the Cob or Spawn of a Herring, though through a Microſcope it looked like a great Beach of round Pebble ſtone, ſuch as I have often ſeen by the Seaſhore, ſome of which I perceived to be hollow, much like the broken Shels of Granadoes: Which brings into my mind what I long ſince obſerv'd in the fiery Sparks that are ſtruck out of a flint, *&c.* For having a great deſire to ſee what was left behind, after the Spark was gone out, I purpoſely ſtruck fire over a very white piece of Paper, and obſerving diligently where ſome conſpicuous ſparks went out, I found a very little black ſpot no bigger than the point of a Pin, which through a Microſcope appeared to be a perfectly round

Ball,

Ball, looking much like a polisht ball of Steel, insomuch that I was able to see the Image of the window reflected from it, making the like Observation in very many others, I found some to be hollow, and to look like the broken shels of Granadoes, much like that represented in the 4th. Figure. I cannot here stay to examine the particular Reasons of it, but shall only hint, that I imagine it to be some small parcel of the flint or steel (for I find inmay be of either) which by the violence of the motion of the stroke (most of which seems to be impreſt upon those small parcels) is made so glowing hot, that 'tis melted into a *Vitrum*, which by the ambient Air is driven into a round Globu'.

A Fifth thing which I thought worth Examination was, Whether the motion of all kind of Springs, might not be reduc'd to the Principle whereby the included heterogeneous fluid seems to be moved; or to that whereby two solids, as Marbles, or the like, are thrust and kept together by the Ambient fluid.

A Sixth thing was, Whether the Rising and Ebullition of the water out

of Springs & Fountains(which lie much higher from the Center of the earth than the ſuperficies of the Sea, from whence it ſeems to be derived) may not be explicated by the Riſing of water in a ſmaller Pipe: For the Sea-water being as it were ſtrain'd through the Pores or Crevices of the earth, is as it were included in little Pipes, where the preſſure of the Air has not ſo great a power to reſiſt its Riſing: But examining this way, and finding in it ſeveral difficulties almoſt irremoveable, I thought upon a way that would much more naturally and conceiveably explain it, which was by this following Experiment: I took a Glaſs Tube of the form of that deſcribed in the 6th. Figure, and chuſing two heterogeneous fluids, ſuch as water and Oyl, I poured in as much water as fill'd up the Pipes as high as (A. B.) then putting in ſome Oyle into the Tube (A. C.) I depreſt the ſuperficies (A.) of the water to (E.) and B. I raiſed to G. which was not ſo high perpendicularly as the ſuperficies of the Oyle F. by the ſpace (F. I.) wherefore the proportion of the gravity of theſe two Liquors was as (G. H.) to (F. E.)

This

This Experiment I tried with ſeveral other Liquors, and particularly with freſh water and ſalt (which we made by diſſolving Salt in warm water) which two though they are nothing heterogeneous, yet before they would perfectly mix one with another, I made trial of the Experiment: Nay, letting the Tube wherein I tried the Experiment remain for many daies, I obſerved them not to mix; but the ſuperficies of the freſh was rather more than leſs elevated above that of the ſalt. Now the proportion of the gravity of Sea-water, to that of River-water, according to *Stevinus* and *Varenius*, (for I have not now the opportunity of making trial my ſelf) is as 46. to 45. that is, 46. Ounces of the ſalt-water will take up no more Room than 45 of the freſh Or reciprocally 45 pints of ſalt-water weigh as much as 46 of freſh. Though I conceive the difference to be much more, for I found the proportion of Brine to freſh water to be near 13 to 12: Suppoſing therefore G. H. M. to repreſent the Sea, and F. I. the height of the Mountain above the Superficies of the Sea, F. M. a Cavern in the Earth, be-

ginning at the bottom of the Sea, and terminated at the top of the Mountain, L. M the Sand at the bottom, through which the water is as it were strained, so as that the fresher parts are only permitted to transude, and the same kept back; if therefore the proportion of G. M. to F. M. be as 45. to 46. then may the Cylinder of salt water G. M. make the Cylinder of fresh water to rise as high as E. and to run over at N. I cannot here stand to examine or confute their Opinion, who make the depth of the Sea below its Superficies, to be no more perpendicularly measur'd than the height of the Mountains above it: 'Tis enough for me to say, there is no one of those that have vented it, have experimentally known the perpendicular of either; nor shall I here determine, whether there may not be many other causes of the separation of the fresh water from the salt, as perhaps some parts of the earth through which it is to pass, may contain a salt, that mixing and uniting with the Sea salt, may precipitate it; much after the same manner as the Alkalizate and Acid Salts mix and precipitate each other in the preparation

ration of *Tartarum Vitriolatum*. I know nor alſo whether the exceeding cold (that muſt neceſſarily be) at the bottom of the water, may not help towards this ſeparation, for we find, that warm water is able to diſſolve and contain more ſalt, than the ſame cold; inſomuch that Brines ſtrongly impregnated by heat, if let cool, do ſuffer much of their ſalt to ſubſide and chryſtallize about the bottom and ſides. I know not alſo whether the exceeding preſſure of the parts of the water one againſt another, may not keep the Salt from deſcending to the very bottom, as finding little or no room to inſert it ſelf between thoſe parts, protruded ſo violently together, or elſe ſqueeze it upwards into the ſuperiour parts of the Sea, where it may more eaſily obtain room for it ſelf, amongſt the parts of the water, by reaſon that there is more heat and leſs preſſure. To this Opinion I was ſomwhat the more induced by the relations I have met with in ſeveral Geographical Writers, of drawing freſh water from the bottom of the Sea, which is ſalt above. I cannot now ſtand to examine, whether this natural perpetual motion may not

artificially

artificially be imitated? Nor can I ſtand to anſwer the Objections which may be made againſt this my Suppoſition: As,

Firſt, How it comes to paſs, that there are ſomtimes ſalt Springs much higher than the Superficies of the water? And,

Secondly, Why Springs do not run faſter and ſlower, according to the varying height made of the Cylinder of Sea-water, by the ebbing and flowing of the Sea?

As to the Firſt, In ſhort, I ſay, the freſh water may receive again a ſaline Tincture near the Superficies of the Earth, by paſſing through ſome ſalt Mines, or elſe many of the ſaline parts of the Sea may be kept back, though not all.

And as to the Second, The ſame Spring may be fed and ſupply'd by divers Caverns, coming from very far diſtant parts of the Sea, ſo as that it may in one place be high, in another low water; and ſo by that means the Spring may be equally ſupply'd at all times. Or elſe the Cavern may be ſo ſtraight and narrow, that the water not having

having ſo ready and free paſſage through it, cannot upon ſo ſhort and quick mutations of preſſure, be able to produce any ſenſible effect at ſuch a diſtance. Beſides, that to confirm this hypotheſis, there are many Examples found in Natural Hiſtorians, of Springs that do ebb and flow like the Sea: As particularly, thoſe recorded by the Learned *Camden*, and after him by *Speed*, to be found in this Iſland: One of which, they relate to be on the Top of a Mountain, by the ſmall Village *Kilken* in *Flintſhire*, *Maris æmulus qui ſtatis temporibus ſuas revomit & reſorbet Aquas*; which at certain times riſeth and falleth after the manner of Sea-Tides. A Second in *Caermardenſhire*, near *Caermarden*, at a place call'd *Cantred Bichan*; *Qui (ut ſcribit Giraldus) naturali die bis undis deficiens, & toties exuberans, marinas imitatur inſtabilitates.* That twice in four and twenty hours ebbing and flowing, reſembleth the uuſtable Motions of the Sea. The *Phænomena* of which two may be eaſily made out, by ſuppoſing their Cavern by which they are fed, to ariſe from the bottom of the next Sea. A Third, is a Well

upon

upon the River *Ogmore*, in *Glamorganshire*, and near unto *Newton*, of which *Camhden* relates himself to be certified, by a Letter from a Learned Friend of his that observed it, *Fons abest hinc*, &c. The Letter is a little too long to be inserted, but the substance is this, that this Well ebbs and flows quite contrarily to the flowing and ebbing of the Sea in those parts: for 'tis almost empty at Full Sea, but full at Low water. This may happen from the Channel by which it is supplied, which may come from the bottom of a Sea very remote from those parts, and where the Tides are much differing from those of the approximate shores. A Fourth lies in *Westmerland*, near the River *Loder*; *Qui instar Euripi sæpius in die reciprocantibus undis fluit & refluit*, which ebbs and flows many times a day. This may proceed from its being supply'd from many Channels, coming from several parts of the Sea, lying sufficiently distant asunder to have the times of High-Water differing enough one from the other; so as that whensoever it shall be High Water over any of those places where these Channels begin, it shall likewise be so in the

Well.

Well. But this is but a Supposition.

A Seventh thing was, Whether in general the Glutinousness of most bodies may not be partly attributed to this property! For supposing glutinous bodies to be such as will easily conform themselves to the superficies of homogeneal bodies, and being suffered for some time to rest in that Position, until they grow hard, the intercourse of the Air or other fluid body being hindred, the force requisite to disjoyn those two superficies must necessarily be such as is able to preponderate and prevail against the pressure of the Air upon a superficies equal to that of the body which is toucht by the glutinous substance; for these two touch so exactly, that 'tis impossible for the Air to get between, until they are somwhat disjoyn'd, by which means the pressure of the Air can only be against the two outward sides opposite to those which joyn them together: This may be confirmed by the Experiment of two flat Marbles, pieces of Glass, and the like smooth bodies; for if they be so exactly plain, that by rubbing them together, you can detrude the interjacent

cent Air, you shall find them stick so hard, that an ordinary strength can hardly separate them; especially if they be of any bigness.

This Property I say, may at least be the cause why some bodies adhere to Glass, and the like: For I am not ignorant, that as for Wood, and many other porous bodies, the glutinous substance may penetrate into their little cavities, and so hardning, become little Hooks or Buttons, that may contribute much to the former Cohesion.

* Of this much has bin said in the 31 & 32 Experiments of the above-mentioned Discourse of the *Air*, & is more copiously explained in a Treatise of the same Honourable *Author* now in the Presse.

An Eighth Query was, Whether the dissolution or mixing of several bodies, whether fluid or solid, with saline or other Liquors, might not partly be attributed to this Principle of the congruity of those bodies and their dissolvents? As of Salt in water, Metals in several Menstruums, Unctuous Gums in Oyles, the Mixing of Wine and water, *&c.* And whether precipitation be not partly made from the same Principle of Incongruity? I say partly, because there are in some dissolutions, some other Causes concurrent.

I shall lastly make a much more seemingly

ingly ſtrange and unlikely Query; and that is, Whether this Principle well examined and explain'd, may not be found a co-efficient in the moſt conſiderable Operations of Nature? As in thoſe of Heat and Light, and conſequently, of Rarefaction and Condenſation, Hardneſs or Solidity and Fluidneſs, Perſpicuity and Opacouſneſs, Refractions and Colours, *&c.* Nay, I know not whether there may be many things done in Nature, in which this may not (be ſaid to) have a Finger? This I may poſſibly further enquire into and examine, if God grant me Life and Opportunity. In the mean time, I would not be thought guilty of that Errour, which the thrice Noble and Learned *Verulam* juſtly takes notice of, as ſuch, and cals *Philoſophiæ Genus Empiricum, quod in paucorum Experimentorum Angustiis & Obſcuritate fundatum eſt.* For I neither conclude from one ſingle Experiment, nor are the Experiments I make uſe of, all made upon one Subject: Nor wreſt I any Experiment to make it *quadrare* with any preconceiv'd Notion. But on the contrary, I endeavour to be converſant in all kind of Experiments,

and

and all and every one of those Trials, I make the standards (as I may say) or Touchstones by which I try all my former Notions, whether they hold not in weight and measure and touch, *&c.* For as that Booy is no other than a Counterfeit Gold, which wants any one of the Proprieties of Gold, (such as are the Malleableness, Weight, Colour, Fixtness in the Fire, Indissolubleness in *Aqua fortis*, and the like.) though it has all the other; so will all those notions be found to be false and deceitful, that will not undergo all the Trials and Tests made of them by Experiments. And therefore such as will not come up to the desired Apex of Perfection, I rather wholly reject and take a new, than by piecing and patching endeavour to retain the old, as knowing old things to be rather made worse by mending, than better. And this course I learn'd from Nature; whom we find neglectful of the old Body, and suffering its Decaies and Infirmities to remain without repair, and altogether sollicitous and careful of perpetuating the Species by new Individuals. And 'tis certainly the most likely way to erect a

glorious

glorious and everlasting structure and Temple to Nature, such as she will be found (by any zealous Votary) to reside in; first to raze the old Pile built upon unstable Fancies and unsound opinions, and to begin a new upon a sure Foundation of Experiments. Thus *Medæa* when she renewed old *Æson*, first searches Heaven and Earth, gathers and collects simples and Ingredients of all kinds, nor would these do any thing till well mixt, concocted and digested.

Omnia confudit, summisq; immiscuit ima.

Then we find her examine whether it will do what she expected.

Ecce, vetus calido versatus stipes aheno
Fit viridis primo, nec longo tempore frondes
Induit, & subito gravidis oneratur Olivis.
At quacunq; cavo spumas ejecit aheno
Ignis, & in terram guttas cecidere calentes:
Vernat humus floresq; & mollia pabula surgunt.

And finding it to come up to what she desired, she then begins her great work.

Quæ simul ac vidit jurcto Medæa recludit
Ense senis jugulum : veteremq; exire cruorem
Passa, replet succis :

After which, what succeeded, but a miraculous Renovation?

——— Barba, comæq;
Canitie posita, nigrum rapuere colorem
Pulsa fugit macies : Abeunt pallorq; situsq
Adjecteq; cavæ supplentur corpore rugæ :
Membraq; luxuriant —

The Application of it is obvious, and therefore (to digress no further from the consideration of the *Phænomena*, more immediatly explicable by this Experiment) we shall proceed to shew, That,

As to the rising of water in a Filtre, the reason of it will be manifest to him that does take notice that a Filtre is constituted of a great number of small long solid bodies, which lie so close together, that the Air in its getting in between them, doth lose of its pressure that it has against the fluid without them, by which

which means the water or liquor not finding ſo ſtrong a reſiſtance between them as is able to counter-ballance the preſſure on its ſuperficies without, is raiſed upward, till it meet with a preſſure of the Air which is able to hinder it. And as to the Riſing of Oyl, melted Tallow, Spirit of Wine, *&c.* in the Weeck of a Candle or Lamp, it is evident, that it differs in nothing from the former, ſave only in this, that in a Filtre the Liquor deſcends and runs away by another part. and in the Weeck the Liquor is diſperſed and carried away by the Flame (which what it is, and how it conſumes bodies, I ſhall on ſome other occaſion by many luciferous Experiments manifeſtly prove) ſomething there is aſcribable to the heat, for that it may rarifie the more volatil and ſpirituous parts of thoſe combuſtible Liquors, and ſo being made lighter than the Air, it may be protruded upwards by that more ponderous fluid body in the Form of Vapours. But this can be aſcribed to the aſcenſion of but a very little, and moſt likely of that only which aſcends without the Weeck, as for the Riſing of it in a Spunge, Bread,

Cotton, *&c.* above the ſuperficies of the ſubjacent Liquor; what has been ſaid about the Filtre (if conſidered) will eaſily ſuggeſt a reaſon, conſidering that all theſe bodies are bound with ſmall holes or pores.

From this ſame Principle alſo(*viz.*) the unequal preſſure of the Air againſt the unequal ſuperficies of the water) proceeds the cauſe of the acceſſion or incurſion of any floating body againſt the ſides of the containing Veſſel, or the appropinquation of two floating bodies, as Bubbles, Corks, Sticks, Straws, *&c.* one towards another. As for inſtance, Take a Glaſs-jar, ſuch as (A. B.) in the 7th. Figure, and filling it pretty near the top with water, throw into it a ſmall round piece of Cork, as (C.) and plunge it all over in water, that it be wet, ſo as that the water may riſe up by the ſides of it, then placing it any where upon the ſuperficies, about an inch, or one Inch and a quarter from any ſide, and you ſhall perceive it by degrees to make perpendicularly toward the neareſt part of the ſide, and the nearer it approaches it, the faſter to be mov'd; the reaſon of which *Phænomenon* will be found

found no other than this, that the Air has a greater preſſure againſt the middle of the ſuperficies, than it has againſt thoſe parts that approach nearer, and are contiguous to the ſides. Now that the preſſure is not ſo much, may (as I ſhewed before in the explication of the 3[d] Figure) be evinced from the riſing of the water near the ſides, higher than that in the middle: Hence the Ball having a ſtronger preſſure againſt that ſide of it which reſpects the middle of the ſuperficies, than againſt that which reſpects the approximate ſide, muſt neceſſarily move towards that part from whence it finds leaſt reſiſtance, and ſo be accelerated, as the reſiſtance decreaſes. Hence the more the water is raiſed under that part of its way it is paſſing above the middle, the faſter it is moved: And therefore you will find it to move faſter in E. than in D. and in D. than in C. Neither could I find the floating ſubſtance to be moved at all, until it were placed upon ſome part of the Superficies that was ſenſibly elevated above the height of the middle part. Now that this may be the true cauſe, you may try with a blown Bladder, and an exact-

ly

ly round Ball upon a very ſmooth Table. For if the Ball be plac'd under a part of the Bladder wch is upon one ſide of the middle of its preſſure, & you preſs ſtrongly againſt the Bladder, you ſhall find the Ball mov'd from the middle towards the ſides. Having therefore ſhewn the reaſon of the motion of any float towards the ſides, the reaſon of the incurſion of any two floating bodies will eaſily appear: For the riſing of the water againſt the ſides of either of them, is an Argument ſufficient, to ſhew the preſſure of the Air to be there leſs, then it is further from it, where it is not ſo much elevated; and therefore the reaſon of the motion of the other toward it, will be the ſame as towards the ſide of the Glaſs; only here from the ſame reaſon, they are mutually mov'd toward each other, whereas the ſide of the Glaſs in the former remains fixt. If alſo you gently fill the Jar ſo full with water, that the water is protuberant above the ſides, of the ſame piece of Cork that before did haſten towards the ſides, does now fly from it as faſt towards the middle of the Superficies; the reaſon of which will be found no other then this, that the preſ-

ſure

ſure of the Air is ſtronger againſt the ſides of the ſuperficies G. and H. then againſt the middle I. which may be argu'd from its being much lower then the middle; and therefore the conſecution will be the ſame as in the former. It is very odd to one that conſiders not the reaſon of it, to ſee two bodies of wood to approach each other, as though they were indued with ſome magnetical vigour; which brings into my mind what I formerly tried with a piece of Cork or ſuch like body, which I ſo ordered, that by putting a little ſtick into the ſame water, one part of the ſaid Cork would approach and make toward the ſtick, whereas another would diſcede and fly away, nay it would have a kind of verticity, ſo as that if the æquator (as I may ſo ſpeak) of the Cork were placed towards the ſtick, if let alone, it would inſtantly turn its appropriate pole toward it, and then run a tilt at it, and this was only by taking a dry Cork, and wetting one ſide of it with one ſmall ſtroak; for by this means gently putting it upon the water, it would depreſs the ſuperficies on every ſide of it that was dry, and therefore the greateſt preſ-

ſure

ſure of the Air being near thoſe ſides caus'd it either to chaſe away, or elſe to fly off from any other floating body, wheras that ſide only againſt which the water aſcended, was thereby able to attract. I cannot here ſtay to explain the Reaſons of magnetical and electrical attraction, nor the Reaſons of gravity or magnetical direction and variation, they being little or nothing at all to my preſent Subject, and beſides, will afford matter enough to fill another ſheet when I have leiſure.

It remains only, that I ſhould determine how high the water or other Liquor may by this means be raiſed in a ſmaller Pipe above the ſuperficies of that without it: But to determine this, will be exceeding difficult, unleſs I could certainly know how much of the Air's preſſure is taken off by the ſmalneſs of ſuch and ſuch a Pipe, and whether it may be wholly taken off, that is, whether there can be a hole or pore ſo ſmall, into which Air could not at all enter, though water might with its whole force, for were there ſuch, 'tis manifeſt, that the water might riſe in it to ſome five or ſix and thirty Engliſh Foot high. I know not whether there may not be ſuch natural Pipes in the bodies of ſmall Trees, which we uſually call their Pores, But I have already pre-ergreſſed the bounds of a Sheet, which I at firſt preſcribed my ſelf for the explication of this *Phænomenon*, and therefore I ſhall at preſent make

AN END.

FACSIMILES OF CONTEMPORARY MSS.

Letter from Sir Isaac Newton dated from Cambridge, November 28th, 1679, to Hooke; concerning the Spiral path taken by Bodies descending to the Earth .. .. .. pp. 52–54

Letter from R. Hooke to Sir I. Newton dated from Gresham College, January 17th, 1679 p. 55

A true State of the Case and Controversy between Sir Isaac Newton and Dr. Robt. Hooke as to the Priority of that Noble Hypothesis of Motion of ye Planets about ye Sun as their Centre .. .. pp. 56–60

Letter from Sir I. Newton dated May 27th, 1686 p. 61

Hooke's Survey of Wharves along the River Thames from Blackfryers to Tower Dock [*B.M. Drawings*] .. .. pp. 62–63

Later Ground plans of Buildings:

A. Between Lawrence Poultney Lane and Bush Lane with an opening to Cannon Street .. .. p. 64

B. Adjoining the Temple and White Friers p. 65

Hooke's List, Catalogues of Book Sales, 1686–9 [*MS. Sloane 1039*] .. .. pp. 66–67

Letter from Sir I. Newton to R. Hooke, 1679

TRINITY COLLEGE LIBRARY DUBLIN

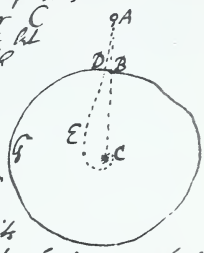
Hooke's Hypothesis Leave. Finished at

Sr I cannot but acknowledge my self very way by the kindness of yo Letter implied to concern wth yo desires in a Philosophical correspondence. And heartily sorry I am that I am at pesent unfurnished wth matter answerable to your expectations for I have been this last half year in Lincolnshire cumbred wth concerns amongst my relations till yesterday when I returned hither; so yt I have had no time to entertain Philosophical meditations or so much as to study or mind any thing els but Country affairs. Chiefly before that, I had for some years last been endeavouring to bind my self from Philosophy to other studies in so much yt I have long grutched the time spent in yt study unless it be perhaps at idle hours sometimes for a diversion: wch makes me almost wholy unacquainted wth what Philosophers at Londo or abroad have of late been imployed about. And perhaps you will incline yo more to believe me when I tell you yt I did not before yo receipt of your last letter so much as heare (yt I remember) of yo Hypothesis of composing yo celestial motions of yo Planets, of a direct motion by the tang to yo curve & of yo laws & causes of springyness, though these no doubt are well known to yo Philosophical world. And having thus shook hands wth Philosophy, & being also at pesent taken off wth other business, I hope it will not be interpreted out of any unkindness to you or yo R. Society that I am backward in engaging my self in these matters, though formerly I must acknowledge I was moved by other reasons, to decline as much as Mr Oldenburgs importunity & ways engage me in disputes would permit, all correspondence with him about them. However I cannot but return my hearty thanks for yo thinking me worthy of so noble a commerce & in order thereto freely imparting to me several things in yo Letter. As to yo Hypoth. of Mons Mallament, though it should not be true yet if it would answer to Phænomena it would be very valuable by reason of its simplicity. But now yo Orbits of all yo primary Planets but ♀ can be reduced to so many concentric circles through each of wch yo Planet moves equal spaces in equal times (for that yo Hypothesis (if I mistake not yo description) I do not yet understand. The readiest way to convince yo world of this truth would be I conceive to set forth first in some two of yo Planets suppose ♂ & yo earth a specimen thereof stated & determined in numbers. I know no body in yo University addicted to making Astron. Observations & my own shortsightedness & tenderness of health makes me something unfit. Yet it's likely I may sometime this winter when I have more leisure then at pesent attempt what you propound for determining the difference of Lat. between Cambr. & Londo. I am glad to heare that so considerable a discovery as you made of yo earths annual parallax is seconded by Mr Flamsteads Observations. In requital of this advertisement I shall communicate to you a fancy of my own

his answer to Philos. Study &c.

Mallements Hypoth.

you about discovering the earth's diurnal motion. In order thereto I will consider ye earth's diurnal motion alone without ye annual, that having little influence on ye experiment I shall here propound. Suppose then BDG represents the Globe of ye Earth carried round once a day about its center C from west to east according to ye order of ye letters BDG; & let A be a heavy body suspended in the Air & moving round with the earth so as perpetually to hang over ye same point thereof B. Then imagin this body B let fall & its gravity will give it a new motion towards ye center of ye earth without diminishing ye old one from west to east. Whence the motion of this body from west to east, by reason that before it fell it was more distant from ye center of ye earth than the parts of ye earth at wch it arrives in its fall, will be greater then the motion from west to east of ye parts of ye earth at wch ye body arrives in its fall: & therefore it will not descend ye perpendicular AC, but outrunning ye parts of ye earth will shoot forward to ye east side of the perpendicular, describing in its fall a spiral line ADEC, quite contrary to ye opinion of ye vulgar who think that if ye earth moved, heavy bodies falling would be outrun by its parts & fall on the west side of ye perpendicular. The advance of ye body from ye perpendicular eastward will in a descent of but 20 or 30 yards be very small & yet I am apt to think it may be enough to determin the matter of fact. Suppose then in a very calm day a Pistol Bullet were let down by a silk line from the top of a high Building or Well, the line going through a small hole made in a plate of Brass or Tinn fastened to ye top of ye Building or Well & ye bullet when let down almost to ye bottom were settled in water so as to cease from swinging & then let down further on an edge of steel lying north & south to try if ye bullet in settling thereon will almost stand in aequilibro but yet with some small propensity (the smaller ye better) decline to ye west side of ye steel as other as it is so let down thereon. The steel being so placed underneath, suppose the bullet be then drawn up to ye top & let fall by cutting clipping or burning the line of silk, & if it fall constant on ye east side of ye steel it will argue ye diurnall motion of ye earth. But what if it will be I know not having never attempted to try it. If any body may think this worth their triall the best way in my opinion would be to try it in a high church or wide steeple the windows being first well stopt. For in a narrow well ye bullet possibly may be apt to receive a ply from ye straitned Air neare ye sides of ye Well, if in its fall it come nearer to one side then to another. It would be convenient also that ye water into wch ye bullet falls be a yard or two deep or more partly that ye bullet may fall more gently on y^e steel, partly that y^e motion wch it has from west to east at its entring into y^e water may by meanes of y^e longer line of descent turn y^e water, carry it on further eastward & so make y^e experiment more manifest.



Here pray sir I know not so varyingly as to be unacquainted with your Hypothesis abovementioned (as I am with almost all things which have of late been done or attempted in Philosophy) I should so far comply with your desire as to send you what Objections I could think of against them if I could think of any old or new ones. and I could with pleasure heare & answer any Objections

against any notions of mine in a Mathematical discourse for a diversion sake. But yet my affection to Philosophy being worn out, so that I am almost as little concerned about it as one tradesman uses to be about another man's trade or a country man about learning, I must acknowledge my self averse from spending time in writing about it wch I think I can spend otherwise more to my own content & yt good of others: & I hope neither you nor any body else will blame me for this averseness. So let you see that it is not out of any sinister resentment or distrust yt I have of Leh & shall do decline Mathematical commerce, but only out of my applying my self to other things, I have communicated to you a notion above set down (such as it is) concerning yt descent of heavy bodies for proving yt motion of yt earth: & shall be as ready to communicate in oral discourse any thing I know, if it shall ever be my happiness to have familiar converse frequently with you. And possibly if any thing upfall to mankind occurs to me I may sometimes impart it to you by letter. So wishing you all happiness & success in your endeavours I rest

Sr

Yor humble Servant.

to command

Js. Newton.

Mr Cock has cast two pieces of Metal for me in order to an further attempt about yt reflecting Tube wch I was yt last year inclined to by yt instigation of some of o' fellows. If I do any thing you may expect to hear from me. But I doubt yt tool on wch they were to be ground, being in yt keeping of one lately deceased, who was to have wrought yt metals, is lost.

Cambridge Novemr 28. 1679.

Mr Newton Nov 28. 1679
Berlin Defend 10 ff 8 d
in a spiral, not dynamic.

[MS. Trinity College, Cambridge.

I gave you no account by my last of the 5th Instant that by the Triangle I had made 30 that Town your Exp.t succeeded very well. I can now assure you that by two triangles since made in two severall places within town it succeeded Also. So that I am now perswaded the Experiment is very certaine, and that it will prove a demonstration of the Diurnall motion of the earth as you have very happily intimated. It now remaines to know the propriety of a curve line (not circular nor concentricall) made by a centrall attractive power which makes the velocity of Descent from the tangent line or equall straight motion at and distance in a duplicate proportion to the Distance Reciprocally taken. I doubt not but that by yor excellent method you will easily find out what that curve must be, and its propriety, and suggest a physicall Reason of this proportion. If you have had any time to consider of this matter, a word or two of yr thoughts of it will be very gratefull to the Society (where it has been debated) and more particularly to

Yr

Gresham Colle
Jan: 17. 1679

Your very humble Servt
R Hooke

A True state of the
Case and Controversy between
Sr Isaak Newton & Dr Robt Hooke
as to the Priority of that Noble
Hypothesis of Motion of ye Planets
about ye Sun as their Centre

[*MS. Trinity College, Cambridge.*

1. In ye year 1666 May ye 23d ~~Mr Hooke shewed to ye Rest of ye following Experiment~~

There was read ~~ye following Exp~~ a Paper of Mr Hooke's explicating the inflection of a direct Motion into a curve by a supposing attractive principle. The discourse contained therein is an introduction to an Experim to shew that circular Motion is compounded of an endeavour by a direct motion by ye Tangent & another endeavour tending to ye Centre: To wch purpose there was fastened to ye Roofe a Pendule wth a Sign like ball on its End. And it was found; That if ye Impetus of ye endeavour by ye Tangt at ye first setting out was strongest then ye Endeavour to ye Centre there was generated such an Elliptical motn whose longest Diam. was parallel to ye direct endeavour of ye body at ye first impulse, if both were equall there was made a perfect circular motion. There was also made another Experiment by fastening another pendulous body by a short string on ye lower part of ye wire by wch ye greater weight was suspended that it might freely make a circular or Elliptick motion round ye bigg whilst ye bigg moved circularly or Elliptically abt ye first Center. The intention whereof was to explicate ye manner of ye D motion abt ye Earth it appearing evidently thereby ye neither ye bigg ball representing ye Earth nor ye less wch represented ye Moon ~~would have bin~~ were moved in so perfect a circle or Ellipsis as otherwise they would have bin if either had bin suspended or moved singly but that a certain point wch seemed to be ye Center of gravity of ye two bodys (howsoever posited and considered as One) seemed to be regularly moved in such a circle or Ellipsis, the two balls having other pecular motions in small Epicycles abt ye sd point C

~~31.th In ye year 1674 he publisht his Treatise I springs or de potentia Restitutiva wherin at page 8 you will find these words~~

II In ye year 1674 he publisht his Attempt to prove ye motion of ye Earth where at page 27. he says they I shall only hint for ye present that in some of my foregoing observat. discovered some new ~~properties of Earth~~ motions even in ye Earth it self wch ye. hap were not dreamt of before wch I shall hereafter more at length describe when farther trials shall have more fully confirmed & compleated these beginnings. At which time also I shall explain a System of ye world differing in many particulars from any yet known, answering in all things to ye Common Rules of Mechanicall Motions: This depends upon 3 suppositions. First That all Celestiall bodys whatsoever have an attraction or a gravitating power towards their own Centers, whereby they attract not only their own parts, & keep them from flying away from them, as we may observe ye Earth to do, but that they do also attract all ye other Celestiall bodys that are within ye sphere of their activity; & consequently ye not only ye ☉ & ☽ have an influence upon ye body and Motion of ye Earth & ye Earth upon them but that ☿ ♂ ♃ & ♄ by their attractive powers have a considerable influence upon ~~its motion~~ ye body & motion of ye Earth & the Earth upon them its motion as in ye same manner ye Correspondent attractive power of ye Earth hath a considerable influence upon every one of their Motions also. The second supposition is this, that all bodys whatsoever that are put into a direct & simple Motion

will so continue to move forward in a strait line, till they are by some other effectuall powers deflected & bent into a motion describing a circle Ellipsis or some other more compounded curve line. The third supposition is that these attractive powers are so much ye more powerfull in operating by how much the nearer ye body wrought upon is to their own centers. Now what these severall degrees are I have not yet experimentally verified: but it is a Motion, wch if fully prosecuted as it ought to be, will mightily assist ye Astronomer to reduce all ye Celestial motions to a certain rule wch I doubt will never be done true without it. He that understands ye Nature of ye circular pendulum and circular motion will easily understand the whole ground of this principle & will know where to find direction in Nature for ye true stating thereof. Lastly I dare promise ye undertaker that he will find all ye great Motions in ye world to be influenced by this principle & that the true understanding thereof will be the true perfection of Astronomy

Nov: ye 24th 1679 Dr Hooke first stirred Newton to a friendly Philosophic Correspondence. In wch letter there are these words — for my own part I shall take it as a great favour if you shall please to communicate ye objections against any hypothesis or opinion of mine particularly if you will let me know ye thoughts of that of compounding ye celestiall motions of ye planets of a direct motion by ye tangent & an attractive motion towards ye centrall body. &c

In answer to this Newton pretends he knew not Hooke's Hypoth. as by his Answer to ye former dated Nov. 28. 1679 and in ye same letter says his affection to Philos. studys was quite worn out.

Dec: 9. 1679. in a letter to Newton Hooke has these words upon act of an Experim^t att ye falling of a ball from a considerable height. — I could add many other considerations consonant to my theory of circular motion compounded by a direct Motion and an attractive one to ye center &c

Jan 6. 1679/80 — Hooke has these words. In ye celestial Motions ye sun Earth or central body are ye cause of ye attraction and tho they cannot be supposed mathematical points yet they may be supposed as physical and ye attraction at a considerable distance may be computed according to ye former proportions as from ye center: (That is as it before in ye same letter — thus) My supposition is that ye attraction always is in a duplicate proportion to ye distance from ye center reciprocall & consequently that ye velocity will be in a subduplicate proportion to ye attraction ~~and conse~~ &c

Note in ye same letter H mentions ye gravitation to be less under ye aequinoctial and consequently the prolated spheroid fig. of ye Earth

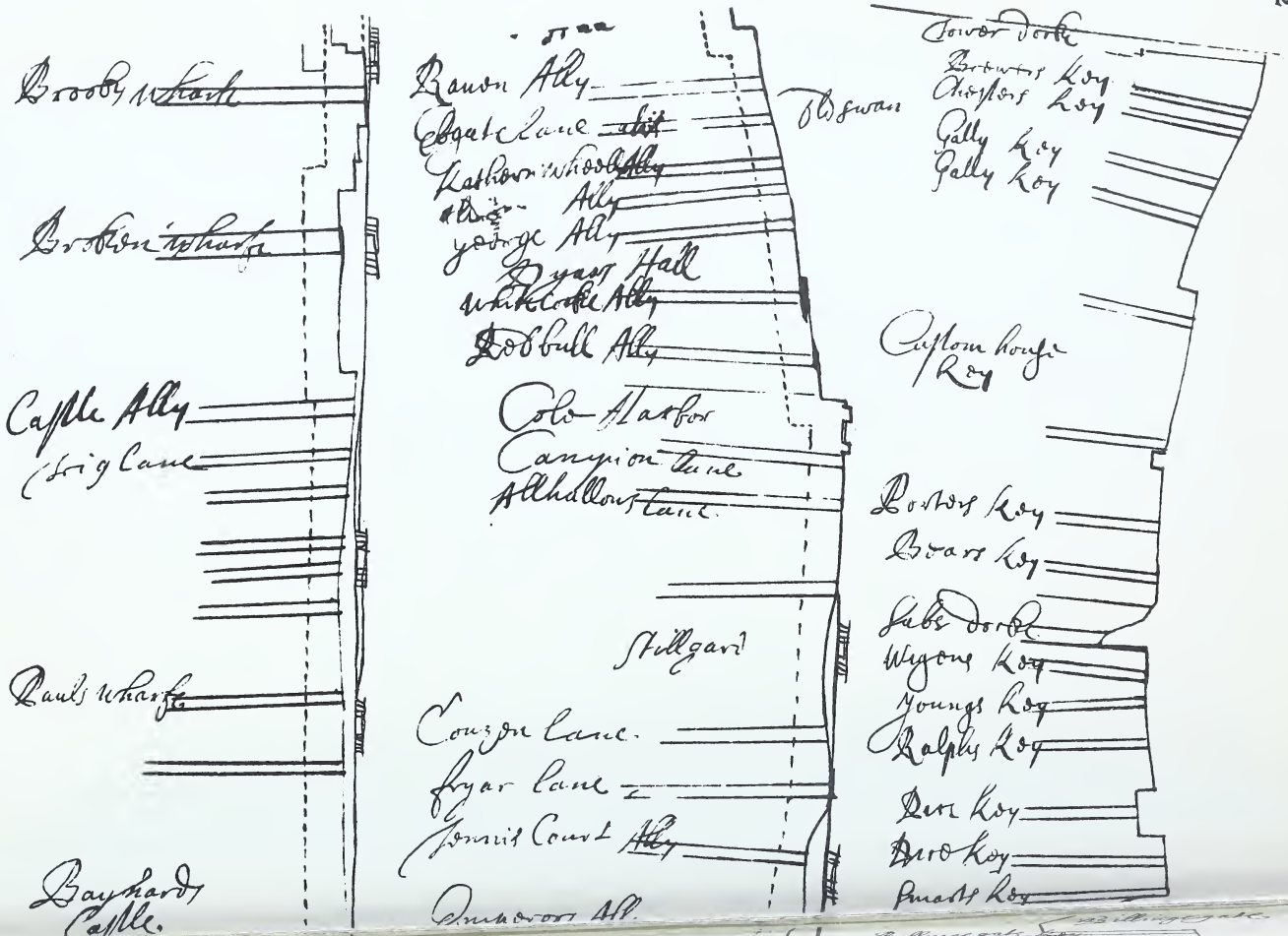
In a letter from Hooke Jan. 17. 1679 are these words — It now remains to know the properties of a curve not circular nor concentricall made by a central attractive power — wch makes the velocity of descent from ye tangent line or equall straight motion at all distances in a duplicate proportion to y^e ~~diff~~ distances reciprocally taken &c

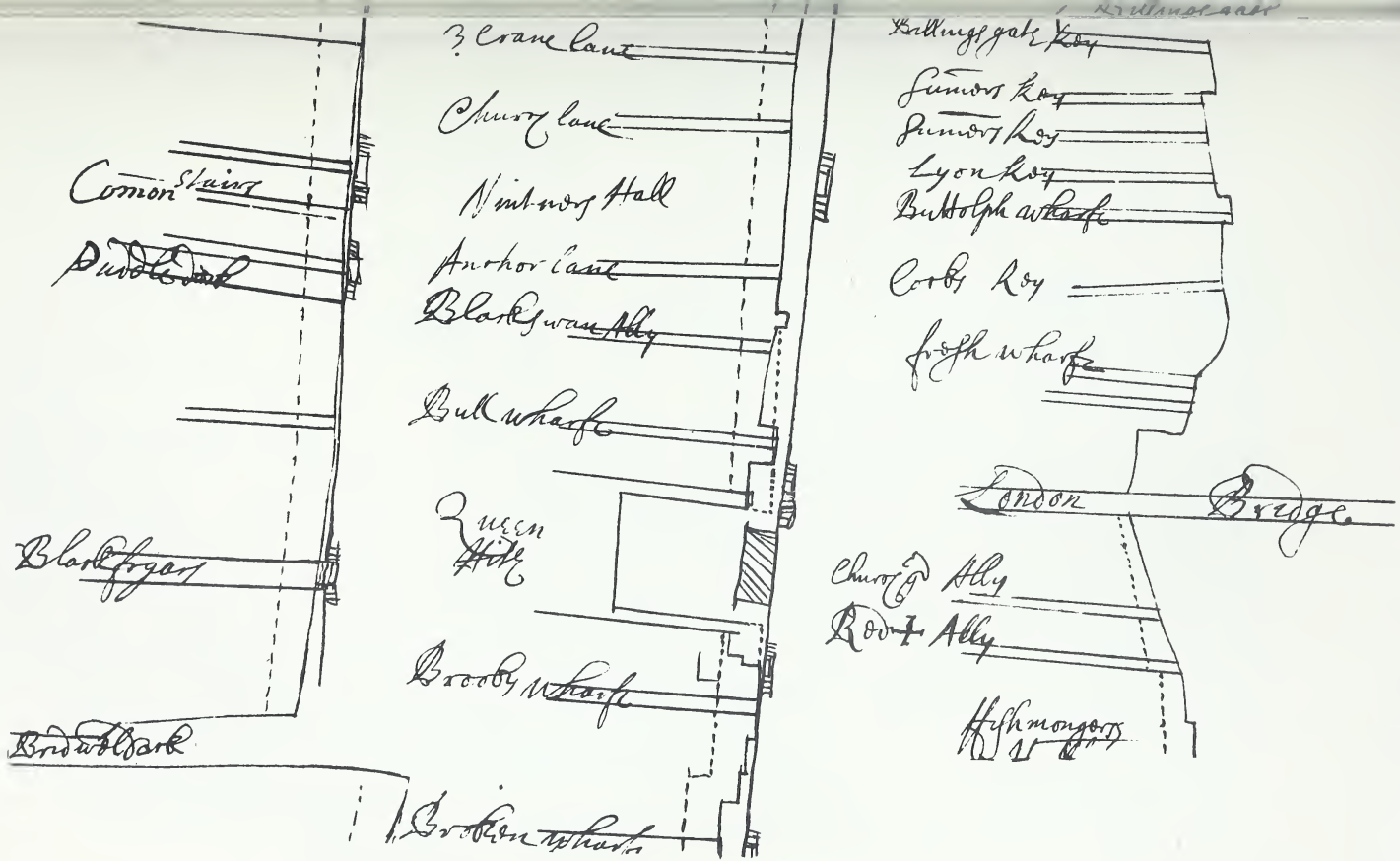
Letter from Sir I. Newton

concerning R. Hooke's view about the Motion of the Planets

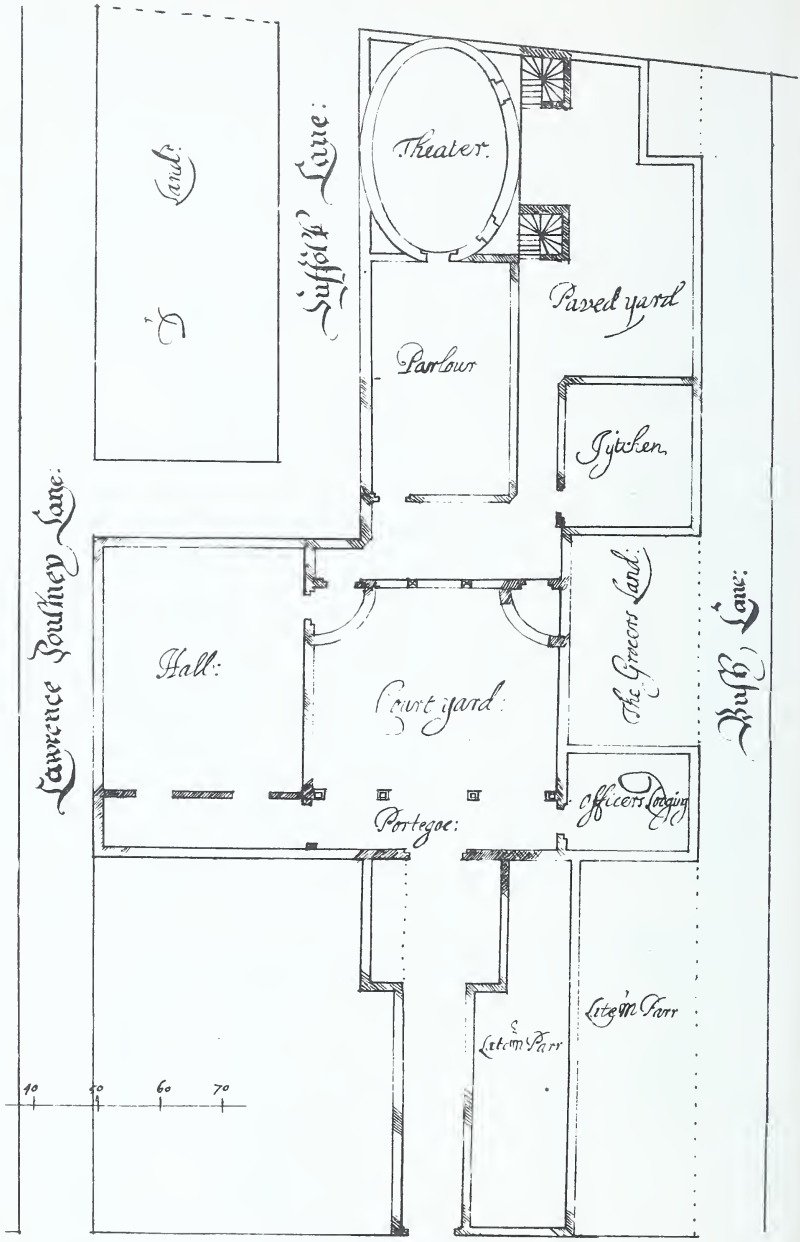
I think you have no new writes concerning Mr Hooke, for I desire that a good understanding may be kept between us. In his papers in yor hands there is not one proposition to which he can pretend, & yet I had not proper occasion of mentioning it to him. There he stops behind where he states the systeme of the world, & mention being of him put between Mr Hooke & me (to the best of my remembrance) any thing. The solicitations for some philosophicall communications or other I construe this motion. That a falling body ought by reason of the earth's diurnall motion to deviate towards the east, and not fall to the west as the vulgar opinion is. and in the scheme wherein he explained this I carefully described the Descent of the falling body in a spiral to the center of the earth: which is true in a resisting medium such as our air is. Mr Hooke replyed it would not descend to the center, but at a continued distance circume vagando again. I then made the simplest case for computation, which was that of gravity uniform in a medium not resisting. Imagining he had learnt the Limit from some computation what he contended for, and stated the Limit as nearly as I could. He replyed that gravity was not uniform ~~for in a plane~~, but increased in dilcent to the center in a reciprocall Duplicate proportion of the Distance from it. and thus the Limit would be otherwise than I had stated it, namely at the end of every intire Revolution, and added that according to this Duplicate proportion the motions of the planets might be explained, and their orbs defined. This is the summe of wt I remember. If there was any thing more materiall or any thing otherwise, I desire Mr Hooke would help my memory. Further that I remember about 9 years since, Sr Christopher Wren wrote upon a wager to Dr Boone and I guess him at his designing the Problem of determining the Planetary motions without any other philosophy. Mr Boone, this was about a year or two before I received Mr Hooke's letters. You are acquainted with Sr Christopher. pray know whence he whence he first had the Rule of the force in a Duplicate Ratio of the Distance from the Center. Sr I am your most affect: & humble Sr: I. N.

Nov. 27. 1686.

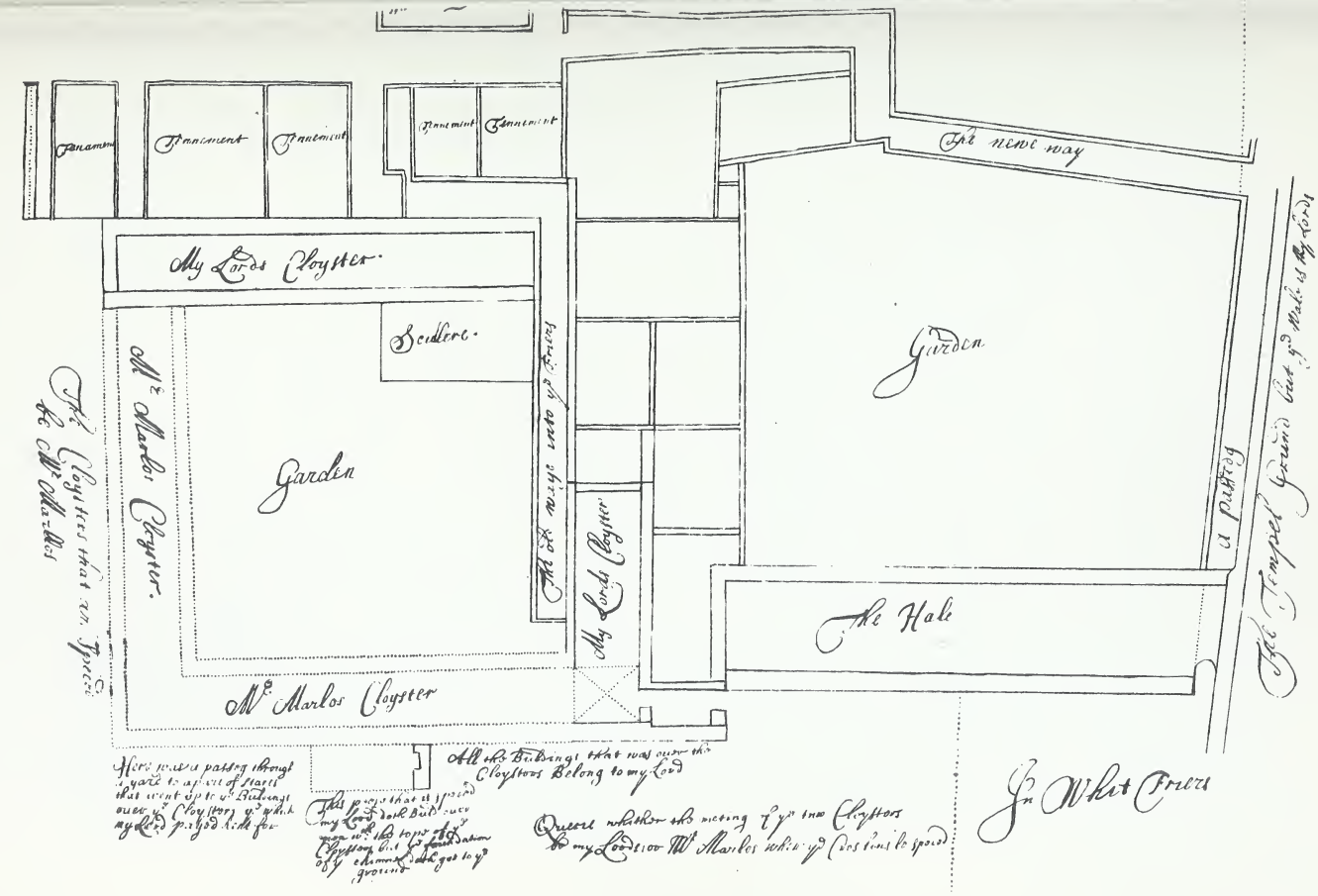

Broody wharfe
Robbin wharfe
Castle Ally
Trig Lane
Pauls wharfe
Bayhards Castle
Raven Ally
Bogate Lane
Kathern wheel Ally
Ally
yeorge Ally
Dyers Hall
whitelocke Ally
Dobbull Ally
Cole Harbor
Canyion lane
Allhallows Lane
Stillgard
Cowgor lane
Fryar lane
Jonnis Court Ally
Old swan
Tower dorke
Brewers Key
Chapers Key
Gally Key
Gally Key
Custom house Key
Porters Key
Boars Key
Sabs dorke
Wyons Key
Youngs Key
Ralphs Key
Dun Key
Bro Key
Smarts Key



Wharves on River Frontage from Blackfryars to Tower Dock.



Cannon Street: North


Tenement
Tenement
Tenement
Tenement
Tenement
The newe way
My Lords Cloyster.
Bedsore.
Garden
Garden
Mr Marlos Cloyster.
The Cloysters that are Special to Mr Marlos
Mr Marlos Cloyster
My Lords Cloyster
The Hale
a passage
The Temples Gardens that yt Mark is my Lords
In Whit Friers
Here was a passage through a yarde to a peece of Stable that went up to the Buildings over the Cloysters wch my Lord passed with for
All the Buildings that was over the Cloysters Belong to my Lord
Queere whether the meeting wth the two Cloysters be my Lordes or Mr Marlos which yt does seem to appeare

HOOKE'S LIST OF CATALOGUES OF BOOK SALES HELD BETWEEN AUGUST 1686 AND AUGUST 1689

The list includes more than a dozen titles which are not mentioned in Lawlers standard work on Book Auctions, 1893.

Bibliotheca Medica & Mathem: & Rica anglo latina	Aug. 30-86. 2
Biblio. Joc: Chamberlain. at Sturbridge — 177	Sep. 8. 86
Catalog. librorum Ric: Davis. pars 2da at Oxford!	Oct. 4. 86 475
Biblioth. Ang'cana	Oct. 25. 86. 2
A catalogue of Mr Shepheard &c Library —	Dec 16. 86
A. Catal: of English books.	Dec 20. 86 2
A Catal. of choice Engl. Books —	Jan 10. 8 6/7 3
A Catalogue of French books of Ch. meam —	Jan. 26. 8 6/7
~~Appendix to y Jane of English Books — Feb. 14.~~	~~Feb. 22. 8 6/7~~
A Catal: of y Libras. of Copping & Beaumont —	Mar: 21. 8 6/7 2
Bibliotheca Solidiana. Sarotti.	Apr: 18. 87 2 —
A Cat. of Choice books —	May 9. 87 2
A Cata: of y Libraries of Sr W. Coventry &c —	May. 9. 87
Bibl: Maynardiana.	June 13. 87
Catal: Lib: Bibl: Edwardi Wray —	June 20. 87
Bibl: Cosmo Anglica — — —	July. 12. 87
A Cat: of choice English books — — — —	July. 18. 87 2.

A Cat. of Latine French & English bookes — Oct. 17. 87
Bibliotheca Jacombiana — — — Oct. 31. 87
A Cat. of choice English bookes — Southwark — Dec. 19. 87
Bibliotheca Illustris. Bentley & Walford — — — Nove: 24. 87. 2
A Cat: of Lat: & English bookes. Another for Books. Jan. 9. 87/8. 3
Catalog? variorū in Jurisprudentia Librorum — — Jan. 23.
Bibl. Maffeviana — Feb. 1 — 2
Cat: Lib: Rob: Scott. — — — — Feb. 13. — 4
A Cat. of Valuable bookes. ½ Sheet — mare 12 — 4
Another for the same day ½ sheet — March 13.
A Catal of Bookes M. March 12.
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Bib: medica Selectissima Biblio: Gulfian: Redivina q.s — Apr. 17. 89 2
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Bibliotheca Selectissima — Bullord — May 8. 89. 2
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THE DIARY OF ROBERT HOOKE

Part I. November 1688 to March 1690

RH November 1688

Th. 1. All Saints Day. HH tea.[1] Recd. from Mr Rob. Foot 4 ℔ 6s stingily,[2] would not give in guinys, nor allow for them as was agreed, though I had stayd above a year and gratifyd him alwais. At Jon. Pif, Wall, Gof, Cur, Lod.[3] Waller lent me Malpighi's letter:[4] Paedagogue begg Kit Stable Yard. Wrought on vault.[5] Hally.[3] Query of lodging 4000[6]. m . 2.3d for Candle. Perpetuall motion man.[7]

Fr. 2. HH tea. N o.[8] Returned Malpigius letter to Waller, in which was 'clariss[imu]m Hookeum meo nomine obsequiosissime Saluto.' At Horns Buttolph Lane.[5] At Jon. affidavits for the Prince

[1] ⧺ tea in MS. Elsewhere ⧺ stands for Henry Hunt, Hooke's successor in 1676 in the Curatorship of the Repository of the Royal Society. As he may have been dwelling in or near the rooms of the Society in Gresham College, HH tea may be 'Hunt here tea'.

[2] Some professors augmented their stipends by letting their rooms in Gresham College. Professor Hooke had attached to his Lodging a stable, which was now rented by Foot for 4 guineas.

[3] These abbreviated names of Hooke's fellow habitués at Jonathan's coffee-house may be expanded as Alex. Pitfield, F.R.S., Richard Waller, F.R.S., Sir Godfrey Copley, F.R.S., Mr Currer, Francis Lodwik, F.R.S., and Edmund Halley. Waller, an accomplished artist and engraver, had illustrated Pif's book.

[4] Marcello Malpighi of Bologna.

[5] The workmen, whom Hooke tipped, were employed by Horne (Nov. 23) to execute repairs to Hooke's parlour in Gresham College (Dec. 8).

[6] ? Soldiers in view of political troubles brewing.

[7] Facio, see 5 March '90.

[8] Perhaps 'not out'.

of Wales:[1] Wall, Pif, Gof, Cur, Lod, etc. DH. N o. Letter from J. Gee.[2] At Jon. Martin returnd from Munnick in Germany etc. Saw D. He. Chocteol on Iron plate: not well: made Lecture. One to have my witness in Sr J. Child[3] businesse in Chancery. From Ch Na.

Sat. 3. HH N. o. Tufnell & Lake from Dr Busby about North window of Abb[ey]. At Jon. o. DH. Bricklayers laborer to finish the Vault, 6d to drink. Haak[4], HH, J Mayor tea. Mm. 2.3d all dark. At Dr Tison[5] tea till 12: sham Melanchol. sham German, Gallen, Lucretius, Ægypt. Proclamation against Declaration.[6]

S. 4. HH tea. D here. More confusd news of Dutch Landing near Portsmouth: Forces marchd that way early this morn[ing]. Mr. Lod here . . . this morn . . . of bond and judgment. M m D.

Mu. 5. HH tea. Dutch seen off the Isle of Wight. DH. at Jon. Henshaw[7], Hally, Gof, Lod, Pif, Wall. In vault did little. At Jon. Dutch sayd to be landed at Pool[8]. Tison and HH here tea, choco. A mystick letter Aubrey.[9] Horn at Jon. D m D. candles.

[1] The son of James II was then barely 5 months old.
[2] J. Gee was often interviewed by Hooke when he visited Dr. Busby at Westminster School or Abbey.
[3] Sir Josiah Child, chairman of E. India Company.
[4] Theodore Haak, F.R.S.
[5] Edward Tyson, F.R.S. The interjected names probably indicate topics of conversation with the last-named person, or subjects of study after Hooke's return home to his lodging.
[6] Steele's Stuart Proclamations No. 3891.
[7] Th. Henshaw was elected F.R.S. with Hooke in 1663.
[8] William Prince of Orange, referred to as P.O., landed at Torbay on Nov. 5.
[9] John Aubrey, a most loyal friend, who for months used Hooke's lodgings as his London address.

Tue. 6. Ticket for Com. Sewers Wensday 9. Very ill all day with a colick and stopage: slept ill. Water high colourd; fasted all day.

W. 7. Very sore by the collick. M[1] made chocolot. Royal Society[2] met: Herbert, Hill,[3] Waller, Pitfeild, Lod. Visited Tison severall times. Dutch sayd to be landed at Tor Bay. Malpighius letter read. Pitfield restored 2 vol. of *Plutarck* and Holl[ands] *Pliny* in English. I deliverd to Mr Hunt[4] Waller his *Algebra* & 4 bookes of *Mengoli*,[5] which he crost out of his book, HH severall times: here also Dr Tison. Beer & bread 17d.

Th. 8. HH tea. Not yet well of Colick. Noe auditors in the morn. J. Mayor here. HH D[ined] with me. 3 in the afternoon, which HH answerd. Gof & Lod here: noe further news. Dr Tyson.

Fr. 9. HH tea. Mr Waller & Mr Mayor & Dr Tison visit mane.[6] Taylor about coat.[7] A cheat from Southerie. DH. Somewhat able to walk. J. Gee about Window of Wood. N.B. Woodstock. Read Morhof *de Method. Med.* from 6 pp. to 2½ mane.

Sat. No. 10. Sl[eep] till 10. HH tea. Mm. 2½ to p. 20s. At Jon. Gof, Lod. DH. n[ot] well. At Fethers[8] Sr C. Wren, J. Oliuer[9] at Dr Gale French-

[1] Martha, his unsatisfactory housekeeper.

[2] Here, as elsewhere, the contraction 'RS' has been expanded to 'Royal Society' which always held its meetings on Wednesdays. After the meeting Hooke and his friends habitually adjourned to Jonathan's for news and chat. They were in effect a Royal Society Club. But this week Hooke was unwell.

[3] A. Hill, F.R.S. 1663.

[4] Hunt was evidently acting for Perry as librarian to the Royal Society.

[5] P. Mengoli, mathematician of Bologna.

[6] 'mane' = in the morning—or a.m., as opposed to pp. or p.m.

[7] The coat was black and the tailor was named Richardson, see Dec. 7.

[8] Feathers Tavern adjoined the Commission Chamber in Fleet st. nr. Shoe lane.

[9] Oliver, City Surveyor.

man and another: Merlins *Proph*[*ecies*]. Lodwik here tea. At Smiths o. At Jon. o (Artil. marcht) Wind shift. Wascote. Shewd HH Pistolls.

Su. 11. HH tea. D[ined] with me. Gof and Lod here: Crop[pers] news.

M. 12. HH tea. to Mr Boy[le]. Ld Burl, Ly Than o. Sr C. Wren at Man. D. with Dr Busby merid.: viewd Windo abby 2½. at Caillou[1], Pr *Simon*.[2] Boudet Marcel *tabl: chronol:*[3] At Dr Holder[4] Sr C. Wren, Wiseman. At Jon. news of yesterdays and this days riots of Rabble. Aubery tea letter. At Busb Cham. Moy. Pages. Moses buried. Horn etc. Sh. Sheet.

Tu. 13. Labour[er] found water 1s. HH tea. pins head at Al. Chamb: Lords *Brammins and Persees*.[5] At Jon. Wall, Pif. DH. Sl[eep] pp:[6] read Lords book. At Jon. Hall. br. 6d, Cand. 13½d. York Remonst. [for free Parliament] Cut Drawers.

W. [*14*]. HH tea. J. Mayor[7]. Mm. 2.2. At Jon. o. DH. MF *Bovilli Geomtr*:[8] ⅜d. Gee and Tufnell Window draught. Detachmt. Jon. H[a]lly:

[1] Monsieur Calloüe, a French bookseller in the Strand, who on one occasion issued a catalogue of Mills's books.

[2] Père Richardus Simon, theological writer, see Jan. 24. He controverted Vossius 1689 in his 'Critical Enquiries' into Editions of Bible.

[3] Boudet, bookseller.

[4] Wm. Holder, D.D., F.R.S. 1663, married Wren's sister. He was the author of 'Elements of Speech', Lond. 1669.

[5] Henry Lord, matric. Magdalen Hall 1580, chaplain at Surat, wrote 'A display of two forraigne sects in the East Indies viz the Sect of the Banians, the ancient inhabitants of India and the Sect of the Persees, the ancient inhabitants of Persia', 1630.

[6] Siesta after 'dinner here'.

[7] Mayor's frequent attendance at morning tea suggests that he lived in or near Gresham College.

[8] Book hunting in Moor Fields was a congenial sport. To-day he secured C. Bovillus 'Geometricum opus, Lutet. 1557.'[1] but frequently his bag is recorded as MF o.

talk mud. At Tison gaue Franc 1s. Royal Society met: Hosk[1], Hil, Wall, Pif, Hough,[2] Aubery, Slayer[3], Lod, J. etc.: little worth.

Th. 15. HH tea. Noe auditory, m[orn] foggy. MF: *Psellus Calculus.* ½d. Jon. o. DH. noe auditory from 2 to 3½ pp. In MF o. 3 Reg[imen]ts revolt. Lod here. At Jon. C Pag[gin], Houghton, Ashby, Gof, Spenc[4], Cur. The last remain.

Fr. 16. HH tea. At Ald. Chamb., out.[5] J. Mayor here. In MF *Varolii Anat.* 2d.[6] At Jon. Waller: 2 Reg[iments] rev[olt]. DH. at Coxes[7] and poultry oyl-jars, 30 gallons. Pif and Wall here: at Jon. o. br. 7d. Tufnell here: st[ockings].

Sa. 17. to Dr Busby, dind ther, r[eturned] her. Anger viewd window[8]: drew it; 1.6d coach. At Mans Sr C Wren: King to Winsor, P. of Wales to Portsmouth. At Caillou o. Boudets o. Jon. o. Proclamation against Exeter fair[9]: a new Gazet. M. 2.2d; Stockins 5d.

S. [*18*]. HH tea. DH. at Jon. Gof, Lod.

M. 19. M. Aretino. MM. Hally and Waller tea. At Al[derman] Chamberlane: returnd *Catastrophe.* Hauton carpenter there of Vault proph: etc. At Jon. Wall, Pif, Lod, Gof, 2 Pag. Bought of in

[1] Sir John Hoskins, F.R.S. 1663.
[2] John Houghton, F.R.S. 1679, 'Collection for the improvement of Husbandry and Trade', ed. 1692. [3] F. Slare, F.R.S. 1680.
[4] Ashby and Spencer were not F.R.S.
[5] Chamberlain. [6] Const. Varolius Anatomiae 1591.
[7] This Cox may have been Hooke's optician, and not to be confused with Dr. Daniel Cox, F.R.S.
[8] Presumably in Westminster Abbey.
[9] Steele's Proclamations No. 3899.

Fenchurch Street 4½ yard of kerzy: pd bringer 24½sh. DH. at Wallers. Jon. vsuall company. o: the Bp petition[1]; news of Delamer[2] and Guin.[3] risings in Wales; Parliament Ballet[4] sung; the King to Sarum; P. of W. to Portsmouth.

T. [*20*]. HH tea. at Lingars.[5] Woodstocks. Colwalls[6], much decayd. of Journalls etc. Payd at Starkys[7] to Dauenpor. 42½sh., he gaue me acquittance: demands more 2.3d, query price of Kilderkin 2.6d. At Jon. talk of some ships revolt, of more Dutch landed; of Convention of Lds in the north. Lod here. Jon. o. Nose bled at 1 p. mn. [midnight] MMD.

Wen. No. 21. HH tea. [At] Counsel Royal Society, Lord Carbery[8] querd about Parlor, which I assented to the vse of: in Mr Henshaws[9] coach to Jeremy[10]; Ld Carb[ery], Sr J. Williamson, Sr Ch. Wren, Hill, Pitt, Henshaw, Tison, Sr J. Cope, Creed,[11] Herbert etc. At Jon. Pif, Waller. DH. Woodstock about Window[12]. Mayor. Royal Society

[1] The Bishops' Petition to the King for a free parliament. Luttrell i. 476.

[2] 'Lord Delamere rides like a madman about the countrie, taks away all horses belonging to papists, dispoyles their chappells, burns all the stuff belonging to them.' Wood *Life and Times*, Luttrell, i. 477.

[3] Or Green.

[4] Ballad.

[5] Lingard, Thomas, a bookseller, *c.* 1690.

[6] D. Colwall, F.R.S. 1663. Founder of R. S. Museum.

[7] John Starkey, publisher, at the Miter in Fleet st. near Temple Bar, was the seller of Milton's Latin Grammar in 1669.

[8] Lord John Vaughan, F.R.S. 1684, 3rd Earl of Carbery, President of R.S. in 1688.

[9] Thomas Henshaw, Univ. Coll. Oxon, F.R.S. 1663.

[10] Jeremy's Coffee-house was the rendezvous of some of the more eminent members of the Council of the Royal Society while Hooke and his set met at Jonathans.

[11] Dr. J. Creed, F.R.S. 1663. See p. 217 note.

[12] At Westminster Abbey.

met: Sr Ch. Wren in chair, Malpighys letter read. At Jon. Sr Th. Meers[1] query for me: Hospitall[2] ticket left there: news of more Dutch landed: P[rince of] O[range] declaration[3] cryd about streets. Ink from Hunt: Spake of keeping coppy of letters. Stormy west wind. 48 Coat Buttons 32d, Mm. 19, silk 8d. Hurrican. HH ink.

Th. 22. HH tea. Noe auditory morning. M bread 7d. At Jon. Pif, OP, Lod, Gof, Cur, o Hal. DH. Read to HH and two more ¾ hour. Sl[eep] pp. Met Hill and Frenchman at Dr Gales. At Jon. o from Dr Gale *Burnets* 2d part of *Telluris Theoria Sacr*: read 8 chap.[4] Hurricane.

Fr. 23. HH tea. Paid Horne for all works done about the 2 Vault Digg[ing] and brickw[ork] 5 ℔: took his account in full vpon it. Cut coat.[5] At Jon. o. DH. Waller and Lodwick here, tea. *Hypoth. Theory of ye Earth.* At Jon. talk of Delam[er],[6] [Earl of] Devon and [Visct] Lumly. Noe great news. Cur worse. MmD. Beer. 9½. HH choc: read *Theor.* θ. Rainy night. Viewd Parish house with Kettle.[7] Franc here. Calm.

Sat. 24. Fitted Coat: Walkt with Gof: MF the *Gazae Gram. Graec.* 2d. At Jon. o. DH. Gees letter. Spoke with Oliuer at Paul. Sr C. Wren at Childs. News of seazing York, rising of Militia,

[1] Sir Th. Meres, M.P. See *D.N.B.*
[2] Christ's Hospital.
[3] Steele Proclamations No. 3898.
[4] Burnet's 'Telluris Theoria Sacra', pr. 1688, remains a topic of interest until Dec. 11.
[5] Cf. Nov. 9.
[6] See Nov. 19, note 3.
[7] Kettle, a joiner who made Hooke's book boxes.

of L F. being here,[1] of loss of ships, of Armys return to London. Calld at Dr G[ale] Lill. 1655.[2] Of θ *theoria* etc. At Jon. confusion: Tison here.

Su. 25. HH tea. DH. θ *Theor* lib. 4. Wall here: news of a Par[liament] of his M[ajestys] return. at Jon. n[ews] of the desert[ion] of Graf, Kirk, Orm, and P[rince] D[enmark]: all confusion.[3]

M. 26. Wall here tea. At Child Hakes man: Princess Anne[4] missing, also La[dy] Churchill and Lady Barkly etc. At Jon. o. DH. at Lingars: Wall and Lod. here. J. Gee from Dr B. At Jon. Chamb, Pif, Wall, Lod. His Maj. returnd to White Hall: news of the march of the P[rince of] O[range] towards Lond: of seizing Hull and Newcastle in the North by Yorkshire risings. Mar.[5] wash Sh. I sent Pif his *Pomp*[*onius*] by Wall.

Tu. 27. to Lingar, Waller, both out. Met Ald. Cham. and his cozen. J. Mayor tea. Jon. little. DH. sl[eep] pp. Water hole in Vault. Jon. Great Councell advised: Free Parliament[6]; Free Pardon; New Councell or treaty with P.O.; Common Councell men chosen in Precincts Vxbridg vancourt, Bishop of Lond. absent; Ld Dorset sayd to haue accompanied the Princess in her flight. Hally here: of Sr J. Hoskins: Mr Henshaw of leaving the Society: of my ingaging for the Sec[retary] and Curator. Davys Pipe cement hard as marble.

[1] ? Louis of France. [2] Lilly's Almanack for 1655.
[3] Desertion of duke of Grafton, lord Churchill, duke of Ormond, and Prince George of Denmark, Luttrell, i. 479.
[4] Princess Anne, afterwards Queen.
[5] First reference to the work of the unsatisfactory Martha.
[6] Free Parliament offered by King James too late.

W. 28. Returnd Dr G[ales] θ *theor.* at Jon. Neil from Newport Pan. Report that his Maj. had granted a free Parliament, free Pardon and a treaty with P.O. Pif and Wall. DH. Haak tea. Royal Society met: Papins new Engin[1]; Plot of trees[2] etc. at Jon. o. Mm. Galloon and ferret 18d; meat etc. 2.2d. Fright last night in Piccadilly: read Stuart letter to Mr Ashby containing many curious Naturall Observations of that place: growing of Nutmeg tree, rice, silk two cropps.

Th. 29. HH tea and Hill. Calld at Horns for labourer. Interp. Charter for Mr Gof. at Jon. the order for free parliament; 8 news books from Holland, Pif, Hall, Hain.[3] DH. Sl[eep] pp. HH tea, not well. at Jon. returnd Ashbys letter of Silk throwsters and Salt works. Noe news forr[eign] or Dom[estic]. D m D.

Fr. 30. St Andrews Day. Horns man and laborer cald but dischargd. About 23 of Royal Society met, adjournd to St Georges Day the Election. at Jon. Comission of Leiftenancy[4] sent for. DH. Sl pp. At Guildhall, Sanders Loans man calld. Gof and Lod here tea. at Jon. Sr J. Hosk and Aglionby[5], Gof, Lod, Hains, Ashby. At about 1 after midnight

[1] Denys Papin, 'A new Digester or Engine for softning Bones . . . its make and use in Cookery, Voyages at Sea, Confectionery, Making of Drinks and Dying. With an account of the Price a good big Engine will cost, and of the Profit it will afford', 1681; 'A Continuation of the New Digester for Bones', Jos. Streater 1687.

[2] Robert Plot, 'Discourse concerning the most seasonable Time for Felling of Trees', *Phil. Trans.* Jan. 1691, p. 455.

[3] Probably Henry Hall and Edward Haynes, both F.R.S. and frequent visitors at Jons, but 'Hall' more often stood for Edm. Halley, the astronomer.

[4] Commission of Leiftenancy.

[5] Wm. Aglionby elected F.R.S. 1667.

one went out of the Pulpit, opend the hall door and went out towards the Gate[1], query Ned? Man at Tisons? Sat vp all night, extracted Ashbys letter. Wore coat. Sr Ch. Wren signed bill for 40s; recd from Mr Boyle 52 shill.

December 1688. D m D.

Sat. 1. Sl[eep] m[ane] J. Mayr tea. Mm. 5s. At Jon. Proclamation for free Parlt. and free pardon: 3 letters shams: New Comission for Lieuftenancy: 3 persons sayd to be sent to PO by his Majy. DH. Much rain. Sl[eep] pp read *Morhof.* at Jon. o. HH tea. qu. *Blunts Voyage.*[2] 2 leathr buckts. Returnd Ashby letter. Cav Curpa.

S. [2.] HH tea. D[ined] here. at Jon. both fleets at Isle of Wight. *Chardin.* paid Richardson 5sh. in part.

Mun. 3. HH tea. Directed crank, fitted lead funnell at Hallys: Saw Bays. at Jon. o. DH. Rosted Cacao. *Chardin.*[3] at Jon. confirm[ation]. of the taking Plim[outh], Bristol, Hull, Sal, York, Chester etc. J. Gee here. Read Stewarts letter to Mr Ashby, of May 11. 1688, from Carolina, of wild silk worms, Vines 8 metres diameter, 500 foot long growing in the Swamps coverd wth ∇ [= water], double crops; thriving of silk wormes and Mulbe[rries].

Tu. 4. at Wallers. News of seasing Gloster,

[1] Of Gresham College. [2] Blunt. See p. 90 note.
[3] 'Travels of Sr J. Chardin into Persia', pr. for Moses Pitt in Duke st. Westminster 1688.

Bristol; of the sinking 3, taking 2, stranding 1 French ships; and escape by 8 dutch vnder Herbert. Returnd. Gof at Mr Boy. Dr Busby[1] d[inner] there: Marm purgd. 2s coach. Mist Sr C. Wren[2]. Saw window [at Westminster], directed batlemt of School. M m D. Caillou, Tompion,[3] Povy[4] out. PO. 3rd decl[aration] sayd to be in print. Descripn of Cranks.

W. 5. HH tea. Hally in MF o. At Jon. o. DH. Dr Gal[5], Hal: Portsm sayd to be blocked vp; Ld Danby shot in Y; P.O. at Hinton in Wilts; Carcasses in tower; Ps. O. at Notingham; a 3d Declar. of PO say[d] to be in diuers priuate hands and some Dd to the L.M.;[6] jealousies of much danger to the City. Great confusion of reports, noe certainty. Disturbance at Cambridge, St Edmondsbury and other places. Mm. 2.8d. Royal Society met: Lord Carbery, Sr J. Hoskins, Hill, Herbert, Aubery, Hautfuille,[7] Wall, Pif, Lod, Gof, Ha[ins]. I read of Cranks, and shewd module. L. Car[bery] desird accou[n]t of 2d part of θ *theory*. at Jon. Hosk, Hill, Lod, Aub, Wall, Pif, Hain: not in helth.

Th. 6. HH tea. At Jon. o. Pif returned his[tory]. DH. Lod here tea. at Jon. o Wild, Aubery ill with cold. Spake to Horn to mend chamber [at Gresham College][8]; Gof ord[ered] him.

[1] Dr. R. Busby, Hooke's headmaster of Westminster School.
[2] Hooke often visited Man's Coffee-house in the hope of finding Wren, who, as often as not, was at Hampton Court.
[3] T. Tompion the celebrated clock-maker, at the Three Crowns in Fleet St.
[4] Th. Povey, F.R.S. 1663.
[5] Th. Gale, D.D., F.R.S. 1677.
[6] 3rd Declaration 28 Nov. 1688. 'Delivered to the Lord Mayor.'
[7] J. D. Hautfouille, an authority on clocks.
[8] Repairs to Hooke's lodging in Gresham College, cf. next two days.

Noe newes. Herbert letter. Treaty at Rainsbury. Angier Letter. *Chardin* chat. Mart 22ʒ troy choc[olat]. Rebukd. Made 20ʒ.

Fry. 7. HH tea. Brickr and laborr 2h[ours] draining. ∇ increasd: mended over Chamber pp. to 4½h. Wall. At Jon. Hull and Portsmouth sayd to be surprisd; French said to be landed in Kent or Cornwall. Anger about Dr Busby; Irish refusd at Sheernesse; a sham letter about massacre, increase fears. Nothing certain: all doubted. Paid Richardson taylor for my Coat 12 shill and 6d. more, wch with the 5sh I paid him before, made 17.6 in full for black Coat: he would haue giuen me an acq[uitan]ce on his Bill, but I could not stay.

Sat. [*8*]. Mm. 3.6d. Foots man about repairing stable and lock. HH tea. Bricklr and labr 2 hours in mending parlor hearth; 4 10-inch and 2 foot-tiles took 1 white tile. at Dr G[ale] for θ *theoria*. Gaue brick. 4d; for 18 lb candles. 6.9d With Sr Ch. Wren, Sr D[ud]ly North and his Bro. at Child: of Turky building, Pottery, Humhums[1] etc. At Jon. o. Princ forces at Redding; P[rince of] Wales returnd to London; reports of French coming from Dunkirk, Cornwall n[ews] contradicted. HH tea. Wrot account of θ *theor.*

Su. 9. DH. Tison here, I there. Jon. o. θ *theor.*

M. 10. HH tea. Warnd Kettle, reference to Dr Wood. Oliuer and one from Wingsbeach.

[1] The Hummums in Covent Garden was a bagnio or place for sweating.

M. Soap. Wash shift.[1] This morn at one of the clock the Queen and P.W. are said to be gone from W[hite] H[all]; at Jon. Dover Castle said to be surrendered. A skirmish at twiford bridge: 30 sailes of Dutch seen last thursday passe by Dover westward; Highlanders sayd to be marching for England; P[rince of] O[range] thought to be at Oxford. at Jon. o. N. θ *theor.* 1. Kiw. 22. Kettle here for the Parish. Shortest Day.

Tu. 11. This morn at 3 of the Clock the K. left White Hall;[2] tis not yet known whither he is gon. Many Nobles and Bishops with Ld Mayor at Guildhall: Common Councell in the euening voted an address to the P.O.: rable rifled Salisbury house and all the masshouses about the town, as Lin[coln] In feild, St Jones, Bucklersbury, Line street and burnt the furniture: 3 regimts in the Gard, papists disarmed: the tower surrendred to Ld Mayor and Ld Lucas Governor disarmed all Papists in the tower. Jeffrys, Herbert etc. said to be gone. Wall here. At Jon. A. Chamberl.: home. At Jon. Lod, Gof, Cur, Pag, Wall, Hall, Pif, Henshaw til 3. DH. At Kettles. sea chest. at Jon. Hain. Nokes Wall. home HH tea. θ *theoria.* DL. ruffle M:

W. 12. HH cho[colat].[3] Mm. 2.7d, br. 7d. At Jon. 24 Artilery returnd by Exchang. DH. Chancellor taken to Ld. Mayor. Soond. Royal Society, I read account of Bu. 3 book:[4] to Jon. Hosk, Hil, Agli,

[1] 'Monday, wash-day' was observed then as now.
[2] The secret departure of James II was followed by the address of the City to the Prince of Orange.
[3] Chocolate was taken by people when ailing, or was offered to guests.
[4] Burnet's 'Theoria', 1684.

Hain, Hal, Wal, Pit, Lod, Gof, Aub. Sr J. Hoskins spak of coming again to Jon. Much shouting about 1 mane. M m D. vp til 4. N. Young here: HH would not hear.

Th. [*13*]. HH tea. at Jon. K[ing] at Feversham. P.O. at Oxon. DH. at Wallers. Letter to put off Arbitration. At Jon. Sr J. Hosk, Lod, Pif, Wal, Hayn: K. at Wh[ite] Hall; Graft and 50 come to town. Lords Declar[ation].[1] Citys Addr[ess] publisht. Hails, [Lord] Peterb. [Ld] Salisb. [taken in Kent when escaping] Letters sayd to be stayed.

Fry. 14. One John Marshall[2] who told me he was Dunning apprentice, and now worked at turning at the 3 Keys in Ivy Lane, came to shew me some Microscopes of his own making; he told me Mr Boyle had bought such of him. At Croppers Coffe house wth Jo. Oliver. Seaman Kettle etc about Parish reference. K lettr to Feversham. In MF o, at Jon. news that the Q. and P[rince] W[ales] were taken before Dunkirk by the Dutch wth 80000 ℔ in gold. The Gards and some Ld sent to the K. at Feversham.[3] News of the taking Burton, Graham, Genner etc[4]; of the taking Dover Castle and town and all the sea-port town for P[rince O[range]; of the seasing Dublin Castle, Ld Tirconnel and Councell in Ireland the 9th of this month; of the Dutch crusing between Engl. and Ireland; and the P[rince]

[1] Steele Proclamations No. 3921.

[2] In 1693 J. Marshall was in business at the Archimedes and the Three Prospects.

[3] James II was at Faversham from Dec. 12 to 15, when he moved to Rochester and London. On the 18th the King went to Gravesend and the Prince of Orange arrived at St. James's.

[4] Sr T. Jenner, Ph. Burton, and Rich. Graham were imprisoned in the Tower till Jan. 27, 1690. See 24 Jan. '90.

O[range] to lodg this night at Windsor Castle; of 4000 horse to quarter this night in Holborn. Tison removed his Goods: Perry[1] here about Foot Farran.[2]

S. [*15*]. HH tea. at Waller M Mores Dream of Sr J. Hosk. At Childs Coffe house[3] met Sr J. Hos, Pif, Hall. Some family Sr J. to Cheapside. At Jon: P[rince of] O[ranges] 4th Declaration[4] sayd to be, but I suspect it and the last. Irish News sayd to be confir: but I suspect it. DH. Sl[eep] pp. At the Fethers with Sr C. Wren: and at Childs Kh then came in Sr J. Hosk, Pif, Wal, Hal, Hain; confusion all: at Jon. much the same. Melan. M m D.[5] M mar. 3s.

Su. 16. N. Young that Hewet could not come. HH d[ined] here,[6] M. surly. At Jon. Lod, Gof. His M[ajesty] past by about 4½ from Rochester. N[ews] of Dubl. and Edinb. doubted.

Mun. 17. Coffe o. At Muinhouse Mark Lane references. One about bringing in train bands here. At Jon: Ld Feversham sayd to be stayd by P.O.; Letter from PO to Common Councill to stand on their Guard: tomorrow he will be here. Chest from Kettle. At Jon. Motion Cuntry man. Noe N. PO sayd to be invited to St James's, and made Generalissimo of the Ks. forces by Land and Sea.

[1] Wm. Perry, Gresham Professor of Music and Librarian of the R.S. 1678.
[2] Farran used to show Hooke's stable to prospective tenants.
[3] Child's Coffee-house was the rendezvous of several fellows of the R. Society.
[4] Against rioting. Steele, l.c., No. 3923.
[5] M M D. possibly M. Mores Dream.
[6] 'D here' or 'dined here' suggests a clue to his daily DH, viz. at home in Gresham College. M. was Martha and 'His My' was James II.

Most of the Lords said to be gone from W[hite] H[all] to PO. All vncertain reports. Foot and Horse Guards said to be marcht from W[hite] H[all] eastward. Mm. D. S[at] vp till 3 mane. H Hunt till 11.

T. [*18*]. HH tea. Sought Oliver: At Childs, Pif, Sr J. Hosk, Hally. The King gone to Greenwich, thence sayd for Rochester: his 3 coaches went by wth some Yeomen of the Guard. The Princes forces entred, posest Whitehall and the Tower. The Prince himself said to be at St Jamess, a Letter from him to ye . . . a Common Councell. Common hall for Parliament men adjournd to Jan. 2d. Bells ring, great joy: the Morn stormy, wind, afternoon wett. Met Oliver at Jonathans.

W. 19. HH tea. I shewd Mr Hill 2 bills for 4 ℔: he promisd acceptacion. At Jon. noe news. DH. Royal Society met: I read Lecture of 4 book of θ theory; Mr Boyles Expt of flame with 2 cold liquor's. At Jon. Hosk, Wall, Ash, Lod, Moulins,[1] Wall, Piff, J. Letter from J. Gee. M.m 25d. Com. Serj. strange story: read *Bibliotheca.*

Thur. 20. Gof to walk, tea, to Childs coffe h: to meet Oliver about award. At Jon. addresse of Common Coun[cil] to PO.: speech and answer pleasd. DH. Met Sr Ch. Wren at Childs[2] Coffe

[1] Dr. Alan Moulin, M.D., F.R.S., 1683, author of 'A Conjecture at the Quantity of Blood in Men together with an Estimate of the Celerity of its Circulation'. *Phil. Trans.* Dec. 1687.

[2] 'Sir Hans Sloane, Dr. Edm Halley and myself were once together at Child's Coffee-house in St. Paul's Churchyard, when Dr. Halley asked me why I was not a member of the Royal Society? I answered, because they durst not choose a heretic. Upon which Dr. Halley said, that if Sir Hans Sloane would propose me, he would second it, which was done accordingly.' Whiston (Wheatley, *London*).

house: signed award about Capmakers house 30 ℔, at Fethers 20s.[1] At Jon: Hough, Wild, Lod, Gof, Ash, Spen, Meverill, Martin, Potic. Irish proclamation: a paper about Co[mmon] Co[uncil] men. Read *Bibliotheca*. began 28$\frac{17}{23}$ of choco.

Fryd. 21. St Thomas Day. Beggar W. Anger from Dr Busby. Foots man. At Jon. Ld of London and ministers to PO, graciously receiued: Co. Co. chosen. Haak tea. dissemble. DH. Slpp. Restord θ *theoria* to Dr Gale. At Childs: letter of rabble in Norhamtonsh at Ld Peterbr. 200 Arm., 200lb powder, fire bull[et]s, 4 bridles plumes white. At Jon. o. N.B. Barnard search—Essedum.

Sa. 22. M.m. 25d, beer 9. HH tea. MF o. A fall hurt head and left Elbo. at Jon. Great councel of Lord[s] in the Lds house. Pif Evid. bal.[2] DH. Mist Mayor. read *Biblioθ*. at Jon. Ash, Spen, Lod, C Pag, Hal, Gof. various reports; Papist[s] orderd to depart from London and West., 10 miles[3]; all signd assotiation, tis sayd; Chancelor close prisoner.

Su. 23. Biblio: DH. Sl[eep] pp. At Jon. the K. said to be gon from Rochester.

Mu. 24. HH tea. Wth Wall. to Mr Boyle, Pen. ther: at Mans Sr Chr: Wren, Oliver. Lords order for remouall of Papists; 2d order for Members of Ch. 2 Parlt men, wth Ld Mayor, Aldn. and 50 Com. Co. men, to meet Wensd. at 10h at the house of Comons; an addresse sd to be made by the Lds to the PO to take on him the Regency for one month.

[1] Fethers. See Nov. 10.
[2] Perhaps a ballad in Pitfields collection.
[3] Stuart Proclamation No. 3949.

I was offred 9 Vol. of the *Jugement* for 22s,[1] *Zane* compleat for 20s[2] etc. at Jon. at night returnd Mr Lod the x. *Biblioθ.* [Sir E.] Hailes said to be retaken.[3]

Tu. 25. Christmas Day. Frost and Snow. D[eo]G[racias]. At Jon. Hally solus. DH. at Jon. Lod, Gof, Pag, Spen. Noe news. Sands *Plato.* Cramer calld. Sat vp.

W. 26. HH tea. Mm. 2.6d. Pitf. Wall to Wills, paid Boudet 22½sh for 9 Vol. of the *Jugemens.* DH. at [Jon.] Gave Hospitall Beedells 2sh: at Wall. and Pifs: met at Jon. Sr J. Hosk, Hally, Pif, Wall, Lod. Newes in the Conuention[4] this day: 350 of Ch. II Parlt men and 74 of City desired PO to be Regent to Jan. 22: young Terkonnel, Castlemain and others said to be seized in Glocestersheir, where 40000 was sayd to be in armes [on] the Larum night. All subscribd Association, as did the Convention this day. T.D.L. [*Te Deum Laudamus*].

Th. 27. HH tea. at Jon. o DH. at Wallers. at Jon. young Page, Cur, down, Gof, Lod, Spenc. Address presented to PO [his] answer tomorrow pp.

Fr. [*28*]. pd Boudet 2½ for *Siam Voyage.* At Jon. Pif, Wall, Hall, Gof, Lod. PO accepted the Administration; guns disch[arg] at Tower: Hails and O Walker[5] put in Tower: Qs letter to PO: Ld

[1] 'Jugements des savants', by Adrien Baillet, 1685–6, 9 vols.
[2] Jo. Zahn 'Oculus artificialis', 1685.
[3] Sr Edw. Hales, arrested while with James II at Faversham.
[4] The Convention Parliament.
[5] The irrepressible Romanist of University College, Oxford.

Hollis Letter. Borrowed *Sphynx* of Waller. at Jon. Sr J. Hosk. Hauton, Lod o. mane J Mayr and HH tea. br. 8d. Read *Sphynx*. 1 pair of Shoos.[1]

Sat. 29. HH tea. Morefeild o. Jon. o. DH. Mist Sr Chr. Wren at Pauls and Childs; calld with Hall at Jon. o. At Jon. o Mm. 25d: markd *Jugement*.

Su. 30. N o. HH tea din'd. Sr J Hos. Wal, Lod in Parlor.

Mu. 31. HH tea. at Walls. borrowed *Gazophulacium Ling. Pers.*[2] of Smith[3]: at Bateman saw *Bettini Aerarium*,[4] he demanded 15; Radzivell 6s: cald at Caillou o. Din'd with Dr Busby, viewd Greencoats Tuttle feild: coach hire 1sh. At Jon Perp[etual] motion man would not be answerd. Lod, Gof, Spenc, Cur, Ashby. Noe news. Called at Dunnings. Haak here, I gone. br. 7d. coppyd *Kircher*.

JANUARY 1688–9

Jan. the 1st. Tuesday. Gof Walk to K[ings]land. Jon gave 2sh DH pie. N Young 6d. At Jonat. Wall, Sr J. Hoskins his question, Pif. P[rince of] O[range] Declaration. At night Cur, Gof, Lod, Spen, Hall.

Wens. 2. Mm. 2.9; peñy post 3d. HH tea. Ticket for attending Hospital boys to P.O. At Jon. o. DH. Bird boyler: tea. Royal Society, Lod, Hosk,

[1] The shoes completed Hooke's outfit begun on Nov. 9.
[2] Probably Mesgnien Meninski, 'Thesaurus linguarum orientalium . . . Persicae', 1680–7. [3] S. Smith, official publisher to the R.S.
[4] Bettini, 'Aerarium philosophiae mathematicae', 1648.

Houghton, Hally, Moulin, Aubery, noe sitting. At Jon. Horsnail from Lester: Old Carter of printing: Dep. Wood &c. at Fleece[1] Angiers son. News of trompetters sent to Ireland. The cold and frost excessive. Read *Jugement* etc.

Th. 3. HH tea. Brought letter from R. Giles, lodges at Glaziers in Aldermanbury. With Waller to Boudets, Caillous, Haaks, Child, S[ir] J. Hosk. C Barnard affront. Hally[s b]ox there. At Jon o. DH Slpp. At Jon. chat.

Fry. 4. HH tea. Wet out, returned *Pers. Dict.* to Smith's Stafford. fell by slip. At Jon. Pif *Coll. of Poems*. DH. sl pp. J Mayor tea. In the morn, brough tenants lease. Bottle sack. With him Johnson glasier, Aldermanb[ury], Gyles prentice, Toms companion, Brading parsons son shewd it Goff. Jon. 7, the usual company, chat o. Extream melanch. notes for Lecture. Much snow, great cold.

Sat. 5. Not out til Jon. Pif, Wall. returnd his *Sphynx* & St. Perusd *Jugement*. Exceeding frost and sn. M. 2:4d.

Su. 6. Twelf Day. N. Young of Hewet: that new tenant Wey was an able man. DH. At Jon. Gof, Martin, Ashby, Pif o. read *Perira in Genesin.*[2] Excessive hard freezing & clear. At 7 pp. HH tea. Melanch. Lectre.

Mun. 7. HH tea. Cald at Littleberys o, mist Haak at Boudets o. Caillous o. Noe slide in St

[1] Fleece tavern, Cowper's Court, S. out of Cornhill.
[2] B. Pererius commentary 1601.

James's. Presented Boyle choc. 2℥, changd spectacles at Cocks.[1] At Jon. Wall, Pif, Hall o. DH. Haak tea. Sl pp. At Jon. o. Sugar 6d, br. 7d.

Tu. 8. HH tea. At Musn house Mark lane Dep. Wood: Saw Tisons and Ald. Chamberlanes. At Jon. o. Pif, Hall, DH. Great thaw. At Jon. o. Gof, Cur, Spence. Smal cand[le] end bur[n]t Bever. M m D. Co[mmon] Co[uncil] voted volun[tary] lone to PO. Wrote lecture.

W. 9. N o. a pail 2s, pd Mm. 2s. At Jon. Pif. DH. Seald lease to Way[2] for 2 years at 13 ℔ 10s, Hunt and Crouch witnesses. Crouch sack, about purchase. Foots man proferd key of stable: I sent him away, Ned Roberts by. At the meeting of Royal Society: Hoskin, Hill, Crisp, Pif, Wall, Aubery, Hally: I read my Animadversions on *Burn[ets] theory θ*; Hally read Mr Boyle's *Acc[oun]t of Exp[erimen]ts of fire.* Aubery sayd twas found by White of Oxon.[3] To Jon: I mentioned my continuing *Philosoph. Lectures & Collect[ions]*, if Royal Society would pay for 60. Agreed by all. Milk & tea.

Th. 10. Foot out. in MF o. At Jon. Angier, Pif, Wall. At Mr Boyles noe news. DH. Sl pp. ankles swelld. N o. at Jon. Sr R. Reding[4] from Dublin, Page & Spaniards. Gof, Mart, Mever, Ash, Cur, Spence, C[apt] Pagin o. many subscriptions.[5]

Fr. 11. HH tea. Foots man again wth key. at

[1] Chr. Cocks, Hooke's optician.
[2] Tenant of H's property in Isle of Wight.
[3] Chr. White, chemical operator in Old Ashmolean Laboratory, Oxford.
[4] Sir R. Reading, F.R.S. 1671.
[5] To loan to Prince of Orange: *see* Jan. 8, 14, and 16.

Jon. Eng. Lordon, Pif. Subscriptions abound. DH. With Gof to Fr. Lodwick j[u]n[io]rs funerall—ring, gloves, riban. At Jon. o. br. 7d, beer 9½. R[ec]d lib 6 *Tachard Voyage de Siam*;[1] 2 qr. paper 9d.

Sat. 12. HH tea. Mm. 2. 4. At Jon. Wall, Lod, Gof, Cur, Hoskin. Wrote to J. Gee to pay Anger. DH. Lod and Gof here tea: Siam religion. At Jon. Hall, Colson &c. noe news, but about subscription: 2 french vessels taken.

Su. 13. Mar 2 church. DH. None here. At Jon. o.

M. 14. HH tea. Foot out. In MF Blunt's *Voyage* 3d.[2] At Jon. Pif, Gof, Lod, Cur, Hal: o. 100000 ℔ lent. DH. J Gee from Dr Busby, refusd payment. Still sleepy. At Jon. Marlow, chat o. Br & Cand 1s.

Tu. 15. Mar[tha] at N Young. Lettr from Gee Sr Ch. Wren cho. for Windsor. In MF English Ovid *de fastis*[3] & *Amesij technometria* 5d[4] At Jon. Wal, Pif, Gof, Lod, Cur o—Waller minutes. DH. Candles 6 lb. At Flece to come with Wood and Oliver about Breretons Reference.[5] Tom Horne here. At Jon. o. Childing woman.

W. 16. Mm. 2.4; Cand. 12 lb. 4.4d. J. Mayor tea. At Jon. Pif &c. o. DH. Small meeting of Royal Society: Lewenhoeck's Letter. At Jon. Hosk,

[1] Tachard. Printed Paris 1686 and 1689, and in English 1688.
[2] Sir Henry Blount of Trinity Coll. Oxford 'Voyage to the Levant' 1636.
[3] J. Gower's translation 1640.
[4] 1633.
[5] See Feb. 7.

Hil, Redding, Mullins, Havers, Hains, Hally, Pif, Wall, Lod. 150000 collected; Prince of Holstein will come Jan. 30.

Th. 17. N o til Jon. Pif 4 books auct. Gof, Lod, Pollit. DH. With Sr Ch. Wren at Childs; at Haaks o.; at Miter referr[ence], appoint Munday 10 mane. At Jon. Gof, Lod, Sp, Wal, Hayn, Mev, Cur, Pag.: of flood, Atlantis etc. D n D. Bever & fox at Scrivener hall.

Fr. 18. br. 7d. In MF o. At Jon. o. Wall, Gof, Lod, Cur. DH. Slpp. toothake At Jon. o. Ashby, Pag, Lod, Gof, Spen, Hough.

Sat. 19. Mm. 2.4d. One to enquire what Lodgers.[1] DH. At Hornes for Tom. At Jon. o. At Huzzys Auction viewd book. Waller of Flams[2] anger with Hally. Tisons mard. Princesse sent for, noe post Meredith. toothake.

Su. 20. N o. toothake. DH. Cox Junr here At Jon. Spenc, Lod, Gof o. HH tea 8 pp. N. Young & girl 1d.

Mu. 21. At Childs coffe: Dep. Wood, J. Oliver arbitration. Boudet packing. Caillou o. At Jon. Pif, Wall. DH. At Auction Hussy pd. 10d *Drusius in Nov. Test.*[3] At Jon. o. Gr. Wed. Ring. saw J.B. term adjourned. 9. At Reading. Sr R. Red[ing][4] at Jon. of Diving Bell.

Tu. 22. HH tea. Westminster Convention met, Acts qu. D[ined] with Dr Busby. Tompion &

[1] In Gresham College.
[2] J. Flamsteed, F.R.S. 1676. Astronomer royal.
[3] Drusius fl. 1550–1616.
[4] Sir R. Redding, F.R.S. 1671.

Aturbury junr[1] squeezing & Diamt Watches. Angier compt through the Hall. With Sr Ch: Wren & Dr Dove. At Mans Maxey & Creed. At Hussy's Aux:[2] pd for *Veruarius* 2s; Dee *Monas* 7d; *Hypoc*[*rates*] *Aph.* 6d. At Jon. Hally, much concerned for the seasing persons abt Ld. Essex [who was murdered].

W. [*23*]. Mm. 22d. J. Mayor calld. Sturdy french beggar. DH 12. In MF o. At Jon. Pif, Hally. A Bristow. Papers from Sr R. Reding of Perle & Gyant Cawsey, I read at Royal Society Meeting. R.S., Hosk, Hill, Pif, Lod, Perry,[3] Mullen,[4] Aglionby,[5] Mapletoft,[6] Hally, Weeks, Sr R. Reding, Hunt. At Jon. Hosk, Hill, Aglionby, Mullen, Aubery, Sr R. Red: Lod, Pif, Wall: Pif *Collection of Songs*:[7] nothing worth noting. Chatt Scarborow Hally at 9½, while I spoke of Flam. I talkd with him about my *Collections*, exchange &c. CC.

Th. 24. HH tea. I read not because the term was adjournd. Calld at Dr Gales & Smiths o. At Jon. Pif, Wall, Lod, Gof, C. Pag, Cur o. DH. At Hussys Auct[ion] pd. for *P. Simon* 18d, *Vives* 3d, *Theocritus* 5d, 6 vol. of *Pagnin* 15.[8] At Jon. o. At Childs Coffe o. One enquird for me here at 2½ pp. M. Beer 9½.

Fry. 25. HH tea. Young Foot here with stable-key: shewd him Library & Repository.[9] Shewd

[1] Fr. Atterbury was one of Busby's most distinguished scholars.
[2] Hussy auction. [3] *See* p. 83. [4] Mullen. [5] W. Aglionby, F.R.S. 1667.
[6] John Mapletoft, F.R.S. 1675. Gresham professor of physick 1675–9.
[7] 'Collection of Poems on Affairs of State', publ. 1689.
[8] S. Pagninus, author of Hebrew Dictionary, 1575.
[9] Repository of the R.S.

Mr Casleton my stable. At Jon. Pif, Wall, o. Mayor here. Of Wallis, Hevel., Plot &c. DH Slpp With HH to R Foot: received 35½ s for 5 months stable.[1] To Mr Castleton at Star yard, r[eceive]d for 1 quarter stable rent to end 25 Apr next 1 G⊙. MF o. Marθ to Tisons returnd. Chirp. At Jon. o. HH tea.

S. Mm. 2½s. N o. at Jon. Pif, Wall o. Commons calld over. DH. Haak tea. In MF o. At Jon o. Read *Vives* & *P. Simon.*[2]

Su. 27. P. Simon. DH. Mart, Jon, Lod, Spencer. HH tea. Shift.

M. 28. HH tea. Sheinr ⊙ *Ellipt.*[3] Spake to Dr Gale of Mr Pep[ys] moduls. At Smith *Tartary* a romance. At Jon. Pif, Gof, Lod, Cur, Pag o. 8 posts. DH. Waller here tea, York Kirk here and at Jonat. another & ye 2=4 man. The Commons vote was [53 (see below)]

Tu. 29. N o. til 12. At Milling auction.[4] At Mr Gof. At Jon. Pif, Wall, Hall, Gof, Lod, Cur. DH. bespake box of Kettle. With Pif to Auxtion. *Pur*[*chas*] *Pilgr*[*ims*].[5] At Jon. Sr R. Redding: of Lister, Diving, Pearles, Lords 49 & 53 Commons: Stop of ships to France: Popis K., not honorble nor safe. Trade with France only by exchange. Heads of requisites for future goverm[en]t.

[1] End of Foot's tenancy of Hooke's stable.

[2] Père Richardus Simon. See Nov. 12.

[3] Chr. Scheiner, 'Refractiones coelestes, sive solis elliptic phaenomenon', 1617.

[4] Millington sales at 'Auction House' over against Black Swan in Ave Mary, &c. 1688. He sold up Oliver's library in Norwich on Dec. 16, 1689. Millington 'had a quick wit and a wonderful fluency of speech' (Dunton). One of his bons mots was 'Who but a sot or a blockhead would have money in his pocket, and starve his brains?'.

[5] 1625.

Wen. 30. Fast. HH tea. Colwall aseep. Minores Algate Crachurch etc. At Jon. Pif, Gof, Lod, Cur, &c. Brereton Packer. In MF o; Mill Auct. o. Sl pp. Noe meeting of Royal Society, but Gale, Pif, Wall, Lod, Mull here till 8 pp. At Jon. Cur, chur. Wal, Pif, Lod, Gof, Spe, Mev, Mart: Adresse about ships for France.

Th. 31. Thanks giving day:[1] Bells began ring at 3 ma[ne]. N o. At Jon. Lod, Gof, Cur o. DH. lamb, sturdy beggar. Jon. Lod, Gof, Cur, Mev, Mart o Hally bonefires, great indifferency.

February

February 1. Fry. b. 3. HH tea. MF. *Latin by speaking* 2d. At Jon. Cur, of Darbyshire. DH. At Coopers[2] & Littleberys[3] for *Suisset*, none. Observd evening glade at 7½ h. pp. At Jon. Kirch. Laced. Votes: thanks. To Sharp *Burnet Sermons*: Bisshops & clergy non-readers: Soldiers & Seamen assisters to County militia & Gentry letters for some new members. Stilyard 6.3. Sr R. Redding here with HH.

Sat. 2. Candlemas Day. HH & J. Mayor tea. At Jon. o. DH. Slpp. brak China dish. M 25d. N o. At Jon. Lod, Gof, Spen, c. Pag. for conference for Monday 9. K. letter on table:[4] Rabble petit[ion] to Lords. HH *de Deluvio.*[5] Rain all day: evening fair.

[1] For deliverance from 'popery and slavery'. Luttrell, 499.
[2] The first English book auction is said to have been held by W. Cooper on Oct. 31, 1676. [3] Littlebury, bookseller.
[4] James II letter. Steele Proclamations No. 3954.
[5] Deluvio, perhaps the title of a paper by Hunt.

Su. 3. DH. Haak tea. Jon. news of the Landing of the Princesse of Orange at Dover. R. *de Diluvio universali.* Sope, star[ch] 4d.

Mu. 4. Waring. Dr Pope in Wales. Saw *German Gramer* of Smiths 2s: with Hally to Caillous o. At Mr Boyle. Chaplain chined. Changd spectacles at Cox. Dark Room. At Jon. Pif, Gof, Lod, Cur: Spake to C. Pag.[1] of returne from Cows. DH. To Jon at 6: votes, not agreement yet of the two Houses: 28 heads of greevances to be redressed, debated and comitted: prating apoth. went off. M. sope Wash. Farran stable tenant. To B[ed] 3 am, feast 6: abolisht curtain wash.

Tus. 5. Wrote Portug[uese]. HH tea To Jon. o. Pif, Wall, Gof. DH. walkd with Pif. Wall. At Jon. Houses not yet agreed.

Wens. 6. HH tea. In MF saw *Cusa* & *Fromond* o. At Jon. o. Pif, Lod, Gof, Pag. DH. Pif, Wal, Hall here Royal Society met: about 16, Hosk., R. Red. &c. At Jon. Kirk, Pif, Morgan asse. Peuterers paling, quere of Bird. Shortgrave Pighil. One Giles[2] of York glasse-painter makes the true red glasse. Lords & Commons agreed [to] chose the Prince & Princesse for King and Queen. Bonefires: bells ring till 3 in the morn. borr. *Zahn.* Mm. 2.3d. Taylor dryd clothes against windo.

Thu. 7. HH. In MF *Cusanus* Idiot 3s, *Fromond*

[1] Captain Paggin often acted as intermediary for Isle of Wight business.

[2] This celebrated glass painter may have been related to R. Giles. See Jan. 4.

4d, *Orang 2d.* At Jon. Wood, Oliver & Brereton[1] agreed his award 95 ℔ for 6 months. HH tea. In MF o. At Jon. Lords message to Commons: Of their concurrence & new othes of Allegiance & Supremacy. Cap[tain] Paggins letter, Newland.

Fry. 8. HH Mayer. Haak. Pells *memoirs*: tea: copied *Pells memoirs.* Jon. Lod, Gof, Hally, Wall, Cur, Cap. Pag, & brother: Concurrence of Commons to Lords election etc. returnd with [immediatly]. Wall of Bp Letter intercep'd at Dover [from] Holl[and] of Sunderl.[2] Footm. 5 ⊙ G per week. Pif ill: DH. MF *Bredenbergius* 2d. At Jon. the same comp[any], also Kirk. ♀[3] paling. br. 7d.

Sat. 9. HH tea. Visit Waller, Gof, Smith: at Littleberry for *Portugall Gramer* & *Leipsicks*:[4] advised him of Closet: enquird all booksellers in Cornhill, Hosrow promised it. With Pif & Neil at Jon. Paling nought but common soder. In MF o. At Jon. Haynes,[5] Hally, Pif, Gof, Lod, Pag, Cur o DH. With Gof walk: Gof, Wall. tea. Jon. news of the full concordance of the Lords with the Commons. Home with Waller. Mm. 2.2 waiting in hall for note, more impud[ence]. *Portug. Gra. book*, to bed. 3.

Su. 10. DH. M n out. At Jon. Frank, Brown, Ash o. to bed 12.

[1] Brereton, see Jan. 15.
[2] Earl of Sunderland taken at Rotterdam in women's apparel. Luttrell, 501.
[3] Pewter mark.
[4] 'Acta Eruditorum', Leipzig, 1682–1716.
[5] Richard Haines, author of books on Almshouses, c. 1674–80.

Mun. 11. Rs 6½. Dr Gale told me of Sr A. Dean.[1] Sr Wm. King gave me his Pict[ure] in Mezzotint. Batemans o.[2] Cald at Crouch & Brown & all book shops for *Portug. Gramer*: none. Haak out, Scrivener Pauls Ch[urch] y[ard]. Richards Coffehouse. At Jon. Hayn, Neil, Gof, Lod, Cur, Pag. 11 Dutch post, noe news. DH. Pif. Wall here. *Dutch Ovid,* Tower hill 6d, Colwall ner dead.[3] Grew coach there. At Jon. o.

Shrove Tuesday 12. [The Princesse of Orange arrived at White Hall about 2 pp. the Prince met her at Greenwich]. Both Houses agreed in all matters & to proclaim them forthwith. D[uke of] Norfolk attended the Prince. He apointed to meet both H[ouses] to morrow at 10 in the Banqueting House. Bells, bonefires. HH tea. Haak Pells paper. DH. At Jon. Pif, Gof, Lod, &c. Gof here tea. Try'd Spand for Whitewash: NB French chalk. N. Young & childn 3d. Piff here with *Vitruvius.* At Jon. Hall mad *Portgese Gramer.*

Ash Wensday 13. Exceeding stormy night, the ☿ [=mercury] at 28.1: 1 ♎. Convention attended P[rinc]e & P[rinces]s with Declaration of their electing them K[ing] and Q[ueen] of England, France & Ireland. They accepted. They were proclaimed[4] at Old Exchange at 2 pp. with great Joy: bonefires and bells ring. HH, Haak, Mayor, Pif.

[1] Sir A. Deane, F.R.S., 1681, with Pepys' help became master shipwright at Harwich, 1664–5. He had been an eyewitness of damage caused by Dutch fire-ships in battle. Evelyn Diary, 1690, 7 March. See his MS. in Rawlinson Collection. †1721.

[2] Bateman, bookseller.

[3] Daniel Colwall, F.R.S., founded the Society's museum 1666. See March 1. He died in 1690.

[4] Steele Procl. No. 3957.

here tea. At Jon. Pag, Cur, Gof, Lod, Neil o. DH at Minores. Royal Society met: Hosk. Hil, Mull, Middleton,[1] Houton, Pif, Wall, Perry: Hally a paper of Infinites.[2] At Jon. o. Mm. 2.3. Beer 9½d. Award brought: French chalk tryd.

Th. 14. Valentine. HH tea MF o. Jon. Lod, Cur, Gof, Pag. List of Councill. Hally. DH. Slpp. Hally here. Parrys Woman. Misst Sr C. Wren at Pauls. At Jon. Common[s] adj[ourne]d to 9 tomorrow, did o. Took of Jon. 6 lb of Cacao nut. np. to bed at 5. 9 11 vollies shot at 2 p.m.

Fr. 15. HH tea. At Jon. Com[mons] met voted thanks to the K[ing] and Q[ueen], adjourned to Munday 9 m. Proclamation for Contin[uing] ofices and Justices. City adressed K and Q, kis'd their hand. DH. Sl pp. MF o. At Hallys met Newton; vainly pretended claim yet acknowledged my information. Interest has no conscience: A posse ad esse non valet consequentia. At Jon. Gooday, Lod, Gof, Mevr, Spen, Pag: little. 9 guns at 11.

Sat. 16. HH tea. Hally brought his *Pliny*. Tea. to Callious o. With Sr Chr. Wren at incorp. Comrs. of the Treasury: Ld. Mordant, Ld. Lumbly, Sr R. Howard, Sr H. Capell, Wm Whitlock. Angiers paper from him. At Jon. sig[ne]d Brewerton's award: he a bond to save me harmlesse. Pif, Waller DH. Sr Wm. Hedges[3] pd me 8 ł 5sh in full for Stable. borrowed of Caillou *Voyage de Mol.*[4]

[1] Middleton, F.R.S. 1687.
[2] Halley, 'An Account of the several species of Infinite Quantity and of the Proportions they bear one to the other, as it was read before the R.S. *Phil. Trans.* Oct. 19, 1692.
[3] Late governor of Bengal, sheriff of London 1693. D.N.B.
[4] Voyage de Mol.

Mm. 2s. At Mr Boyles 2 french of Comet in November. Of papers. M. impudent. At Jon. o.

Su. Feb. 17. DH. MM not out. At Jon. o. Rus.

Mu. 18. Sent letter to R. Giles with Peter Paggen to Charles Newland of Cows: 4d in news. Hewet 2d: instructed him about repairing his house. Enquir'd of Pate in Goat yard for Iron ore at Spur Inne Southwark. At Jon: Pif, Wall, Lod, etc.: a Shark & Setter (pretending to be old Hooks brother of Bramshot) doggd me home. A 3rd lisned at my open door but ran away when I went out. He pretended to come from Ireland, to lodge in Durham Yard, to be heard of at the Cellar under the Exchange etc. Pif & Wall here: Waller took away Letter Committe Book. Examin'd Hardwine's *Pliny*,[1] English *Pliny* from the French: neither true. Scarborough here. King's Speech to both houses: thanks voted. At Jon. talked with Paggen of Shipping. Chid Martha. View & foundation Thursday.

Tu. 19. HH. J Mayor tea. at Sr W. Hedges. Man, Hall: at Smith's Dr Barnard of books: At Dr Gale's of Mr Pep. at MF o. at Jon. Gof, Lod, Cur o. DH. at Sr W. Hedges. Perused *Pliny*. R[eceive]d stable Key. At Jon. Kirk, also Pulle and another about Perpet[ual] Motion: news the Lds bill sent to Commons, to make Convn. and Par[liamen]t.

W. 20. (Mm. 27d bacon at barnes) at Jeremys o.

[1] J. Hardouin, Pliny, 1684.

At Jon. o. DH. Angier. Royal Society: Hoskins ascribd differ. pendul. to More & Hally falsly: Longitude Seaman Kirk with Gale: Cole[1] of Spiders, frogs etc. Papin paper of Gunpowder to raise Weight. I discoursed [*line obliterated*] [Pondere] premit aer Vacuum quod ab igne relictum est: I had told it before to Waller. At Jon. Sr Gof Copley,[2] Hosk, Hil, Aglion, Gale, Lod, Houton, Spy: much news. The Commons past the Bill for this a Parliament:[3] Oxf. & Camb[ridge] sullen: Hopes of Ireland.

Th. 21. Chapman's view Blackfryers 10s. Fleet brewhouse. Jon. o. DH. Stable too short for Renison's coach. Jon. o. Title of Bill x.

Fr. 22. Kirk here. HH tea. At Renison Coles to Westminster Hall: the Speaker saluted me: met Sr W. Basset: Parlt Bill sent up to Lords: Sr R. Howard[4] discovery of vast sum for secret services. D[ine] at Dr Busby: in Museum crack. Returnd Callious book of *Russia*: Saw *Column Antonina* & *Josephus*. At Jon. Pif, Ashb, Spen, Gof, Lod, Mever o. Mr Henshaw[5] call'd here.

Sat. [*23*]. Mm. 29d. Bird, soder: tea. I paid Martha 20sh for Christmas quarters wages. In MF o. At Jon. K[ing] passd Act of Parlmt. Went to Hampton Court.[6] Pif, Wal, Lod, Gof, Pag.

[1] Dr. William Cole of Bristol.
[2] Sir Godfrey Copley, M.P., F.R.S. 1691, Founder of R. Soc. Copley Medal.
[3] Which remained in session until August 20.
[4] Privy Councillor and dramatist, see Feb. 16.
[5] Th. Henshaw, F.R.S. 1663.
[6] 'Their Majesties go frequently to Hampton Court, taking delight in that place.' Luttrell, 504.

DH. Lod here. in MF *Darys gaging*[1] 4d; *Halls Phocilides* 3d.[2] At Jon. Hall, Col, Gof, Lod, Spencer: saw book of Varnish & Lackering etc.[3]

S. 24. DH. Jon. o.

Mu. 25. Wound up watch spring: to Sr Chr. Wren at Hampton Court. At Mans. talkd with Pits[4] of *Atlas*. Chan. Wal. Hay. his Comrade joynd at last: he spoke of Referring Differences: I told him of Asia mapps, Tunquin &c. At Mr Boyles, Earhorn. Sarotti, french Spys. Red glasse. Schirnhouse.— At Caillous o. At Jon. Pif, Wal, 2 Pag, Gof, Lod, DH. MF Delgle *hesper*. 3d, *florist* 6d. To Hogsden coffehouse with Waller: from him here: *Journ.* since 82. At Jon. Pot, Cur, Lod, Gof, Wall: first Act of Parliament. Told Waller of joyning for Secretary.

Tu. 26. Dr Aglio[nby]. abed: Al. Chamb. busy: in MF o. Jon. 2 Pag, Lod, Gof, Pif answer to Deposit: Irish proclamation. DH. Gof here: New[s] of purchase. Walk. to Pif Square. At Jon. Lod, Gof, Wall, Hall, violent &c Cut 6 ells of Holl[and] for 2 shirts: M[artha] to make them. hat-box for cl (?).

Wen. 27. Mm. 23d, thread 3d MF o. Jo. o. N: read Rock. letter. DH. Haak. w. in Royal Society Coles letter *vide* Letter.[5] Sr Gof Coply spoke for Waterworks. One about View at Sepul-

[1] Mich. Dary, a gauger at Bristol who wrote on the quadrant.
[2] Probably an astronomical work by J. Phocylides.
[3] 'Treatise of Japaning and Varnishing . . . rules for counterfeiting marble' by John Stalker and [Geo Parker]. May 1689.
[4] Moses Pitt, bookseller at the Angel in St Paul's Churchyard. See *Early Science*, vii, p. 503.
[5] In R.S. Letter book.

cres. Scarborough heard of Vossius his death.[1] Pepys layd by. Commons voted to stand by the King, his Allys & the protestant interest, with lives & fortunes to reduce Ireland[2]. M. short. rebuke Facio here.

Th. 28. HH tea. J. Mayor smok: cave. In MF o. DH. at Jon. o. at Dr Gale about Vossius his library. Sr Ch. Wren nor J. O[liver] at Pauls: Called at Faithornes: saw Wansleb.[3] made ch, made demonstration of long & round vaults. Much rain with lightning & thunder about 9 pp. Round Marble. Shift.

March 1688–9

Fry. March 1. HH tea. Sherbrooks view at Sepulcres church yard 10s. At Batemans o. At Jon. Wall, Pif, &c. o. DH. misst Sr A. Dean at home, but spoke to him at Jeremys. Saw Dr Colwall worse than a child: through Minores, Hounditch, Bedlam: MF o: at Mrs Mores. At Jon. Lds Comrs of Seale[4] Maynard, Kecke, Rawlinson: 2 Dutch ships stranded on the Gunfleet: [Earl of] Arran & others secured [in Tower]: a Common Councell: Hains, Hally, Cur, Mart, Lod, Gof, &c. o.

Sat. 2. Mm. 2.2; 12lb candles 4.4d. In MF o. At Jon. Houses sware: Ld, Gof, Pif, Cur, Hal, Pag, DH. At Littleberrys[2] 2 *Acta Lips.* 2s: saw his closet. Mist Sr Chr. Wren at Pawles. At Jerimys Sr A. Dean o. At Jon. mend Supl: bill for Swear-

[1] I. Vossius, author of 'De lucis natura et proprietate', Amst. 1662. F.R.S. 1664.
[2] Luttrell, 505.
[3] J. M. Wansleb, 'Present State of Egypt', 1678.
[4] The Great Seal.

ing: Preist seized: Bill in Lds to remove Papists from London: Com[mons] address of thanks for Chimny money. Cur, Hal, Wal, Gof, Lod, Spen, Pot, Pag, Tompion Prich: read *Acta*: to bed at 3.

Su. 3. DH. at Jon. o. K[ing] taken at . . . oyld. At Hen.(?) he sent my letter to R. G. by a neighbour Shoomr. Feb. 23.

M. 4. Sr Chr. Wren at Hamton Court. at Mr Boyle Dr Mullins, Facio &c. Object glasse 6 inches wide. At Mans Dr Busby's dind: met Smith & Chamb. in Court of Requests from J. Gee 2s. At Jonathans noe news. M. washt. borrowed *Speidells* book of Hally: Speidell hath basely stolen Nic. Mercators book, but understand not what he writes.

Tu. 5. HH tea. Waller. Coles paper of Spiders. Chapman for ground plot recommended HH. bred beer 9½. in MF o. at Jon. Pif, Wall, Hayn, Hally, Lod, Gof, Cur, DH. Slpp. Gregory & Mercator Loga. At Jon. much done by Par[liamen]t: nothing forrein. Rain in the afternoon.

Wens. 6. HH tea. Chapman to HH. Hally tea. Paid Kettle for book box 4s. At Jon. Lod, Gof, Cur, Gooday. K. Speech DH. MF o. Royal Society met: Hally read a paper of Walking under Water.[1] The same with what I shewd the Society 25 years since. Hoskins belged me, as he does every time. Joh. Gee here about Oliver. Told Sr Gof Coply of Waterwork. Read *Gregory Log.*

[1] Halley, 'A method of Walking under Water', printed in 1932 in MacPike, 'Halley', p. 144. And Hooke on Feb. and March 1664, March 1665, and on other occasions. See Gunther, *Hooke's Life and Works.*

Th. 7. J. Mayor stayd not: Ringood carrier placd books in boxes. At Jon. Wall, Piff. DH. In MF B. Jonsons House (?) [ ]ter 14d. At Jon. French had [ ] Ld Carbery, Pembroke etc. in lett . . . sick with grill meat. Tea. began [ ][1]

Fryd: 8. HH tea. m. br. 7d In MF *Phil* [ ] *Poets* 6: at Sr A. Deans, abroad: at Jon. Pif, Wal, Hal, Gof, Lod, Cur, : K. speech to Pt (parliament) in banqueting house. DH. at Gofs new neighbour. Gale busy: Oliver Atkins Coff. Saluted B. Burnet Bp. of Sarum[2] wth the D. of Can[3]. . . . Catalog of Huzzy Auxtion. Mund. at Haak decays apace. At Jon. Dep. Smith, Gage tables of one Williamson.

Sat. [9]. Mm. 30d. J. Major tea. To Gof, Chocol: to Kingsland coffe. At Jon. o. DH: at Sr A. Deans, out. Pd. 30d for *Dutch* ὀφθαλμοδουλεια, at Tower hill. In MF *Historians Guide* 7d, *Horac odes* 4d. Cramer here[4]. At Jonathans K Speech, Parlts Address. Saw guilded Glazed pots nigh Algate fenchurch Street NB.

Su. 10. DH Haak heretia. at Jon. o. Hall. longitude paper. Cap[tain] Knox[5] Barbadoes Æquinoctiall. DG.

[1] *Corner torn off MS.*

[2] Gilb. Burnet had done more to help William to his English throne than any one else and was rewarded with the bishoprick of Salisbury in 1689.

[3] Dr. Tillotson, Dean of Canterbury.

[4] Cramer on 19 Nov. 1690 was proposed as deputy to Halley during an absence, as Clerk to the Royal Society.

[5] Capt. Robt. Knox had been a prisoner for 20 years in Ceylon, of which he published an 'Historical Relation of the Island Ceylon, in the East Indies: with Account of the Captivity of the Author and divers other Englishmen now living there, and the Author's Miraculous Escape' in 1689. His stories made him a persona grata at Jonathan's.

March 11. Mund. HH tea. At Sr A. Dean's: he appointed to be at home Wens. 11. at Wallr Mr Moor[1] [spake] of Sr J. More.[2] At Jon. Pif, Gof, Lod, Cur o. DH. With Wall to Hussys Auct[ion], p[ai]d 3d [for] Duregantis *Spanish grammer*; 7d *Disput. de infinito* &c and *de Justo* &c.; 8d M. Marci *de Motu*; 8d *Welschen Reis-beschreibung* &c. At Childs [coffee house] Dr Barnard [spake] of *Pope Jone*.[3] At Jon. Levj. to the usuall company. Mr Renison [came] about [my] Stable. 20s to MS.[4]

Tu. 12. HH tea. At Woodstocks: in darbysh. At Jon. vsuall comp[any], I pleaded against Division & Reueng. Pif, Hal. home. DH. with carpenter and Renison in stable. With Waller & Pif to Hussy Auc[tion]. At Childs Dr Barnard q[uerie]d if Dr Crones Books.[5] Flamsted vaporing there of his Boy. Bought of Hussy, Rivij *Histor. Navalis* 7d; Holland *Euclid* 3d; *Swede Dictionary* 9d; *Spanish &c Nomenclat.* 4d. At Jon. Gof told me of Norhamptonshire Estate. Broke spectacle frame. Vp till 5.

W. 13. HH & Hally tea. Cut hair. At Jon. o. DH. One about a view. Aubery, Haak. R[oyal] S[ociety] met: my former Inventions of Diving read.[6] Explaind to Sr Gof. Coply force pump & Ballance Buckets. At Jon. Hosk[ins], Gale, Hill, Lod, Wall, Pif, Hall, Houg, Sr G. Cop: news &c.;

[1] ? Henry More.
[2] Sir Jonas Moore, surveyor-general of the ordnance, d. 1679.
[3] 'Pope Joan or An account collected out of the Romish authors . . . testifying that there was a she-Pope,' May 1689.
[4] A similar quarterly payment to Martha on 18 April next.
[5] Dr. Croune was Gresham professor of rhetoric 1659–70.
[6] Hooke's experiments in diving were made in 1664–5.

nothing of Philosophy. Mm. 15d. t.b. [to bed] i p.m.

Th. 14. Rainy. at Poutry but returnd. HH tea. At Jon. o. DH. Mr Renison about Stable. Mr Waller here till 7: about plants colours: Water p[i]pes for Ho[use]. At Jon. a *Spy*.[1] Hall of Dutch Bantam & Japon cane. Witsens book. Dr Tillotson presented sermon. 600000 ℔. voted to pay the Dutch; comprehension & tollerat. bill past the Lords. Told Wall of Foot.

Fry. 15. Bind Peuterers soder with Isinglasse. HH tea. at Jon. o. DH. In MF met Waller, at Poules mist Sr C. Wren. At Jon. Ash, Lod, Gof, Spenc, Wal, Pag, Meverell, news of the Revolt of Dunbartons Regiment[2] & fusiler, in all 800. Houses address the K. against them: Diverse Regiments sent against them. Exceeding cold day: great ring about ☾. Pleasant dream.

Sat. [*16*]. Dark cold morn: with Wall by coach to Sr Cr. Wren, he at Ham[pton] Cou[rt]. At Mary Toms. Cap. Gib. To Mr Boyle: spake for Picture by Vand Bank. At Calliou *Novells*. At Jon. o. DH. Lod. *Algebra*. At Jon. Bill past for Apprehend[ing] Conspirat[ors]. Bill preparing for Restoring all Charters as in 1660. Rain all afternoon. Tison call'd. Mm. 3s. t. b. 3. Read Rivius *de Re Navali*.[3]

Su. 17. DH. at Jon. o. mist Hewet. N Young here. *Bannian & Perses*.[4] Head akd: t. b. 12.

[1] See Preface, p. xxv.
[2] They refused to embark for Holland. Luttrell 511; Macaulay, Hist. ii.
[3] Sir T. Ryves, c. 1620.
[4] See Nov. 13 last.

Mu. 18. HH tea. Mr. Gof tea. Walk to Pames. MF 3d Juan Fragoso *de las cosas Aromaticas.*[1] Jon. news of the Death of Queen Christina:[2] Proclam[ation] against rebell Souldiers[3]: severall defeats of the French: 6 posts. Sr P. Daniel, Sr Th. Vernon, Dep. Smith &c to dine with the Haberdashers at Romer.[4] I was with them at 4 till 6. Dr Tillots., Dr Sharp, Dr Scot, Sr J. Laurence, Sr P. Dan., Sr T. Vernon about new Hospitall[5]. Hussy new Catalogue. At Jon. o.

Tu. 19. At Sherbrooks View, 10s. Farran shew'd stable. Major calld. From Sepulcres to Haak. Caillous: misst Mr Pepys. At Lyes pd 1s for Speidells *Logarithmotechnia.*[6] At Jon. news of K. James standing in Ireland. DH. Hally here: apples. At Jon. Sr J. More [was] voted to have invaded the Libertys of London [in 1682].

Wens. 20. Rainy morn. HH tea. Returned to Ald. Chamberlane. Bannian Manuscript & Lords book. Mm. 3s. At Jon. o DH. R[oyal] Soc[iety] met: nought new. Molineux[7] & Sr George Ash. At Jon. Hosk, Hill, Pif, Wall, Lod, Houg, Hally o. Catalog of Mills Aux[tion].[8] one about my Stable. At Jon.

[1] 1572.
[2] Queen of Sweden.
[3] Steele, Stuart Procl. No. 3977.
[4] Romer's Coffee-house in King St., Westminster, mentioned by Dr. E. Lake, Camden Soc. No. 39. At a later date Hooke notes that he 'dind at the Romer in Queen street with Blount & Halley (June 1, 1695)'.
[5] Committee of the Haberdashers Company.
[6] John Speidell, 'A Breefe Treatise of Sphaericall Triangles. Whereunto is annexed . . . Geometricall Problems.' 4to, Lond. 1627.
[7] Wm. Molyneux, surveyor general of the king's buildings 1684–8. F.R.S. 1686.
[8] Adiel Mills, bookseller, at the Peacock in Ave Mary Lane. He became bankrupt and his stock was sold on Feb. 9, 1690–1, at the Bear in Ave Maria Lane by Benj. Walford.

Th. [*21*]. to Mans, news of Dunbarton's R. rout at WG bish. At Mr Pepys kind. At Jon. pretended Hook beggar a cheat. at Jon. Hall, Pif, Wall, Gof, Lod o. DH. Dr Lauson to Busby. Gees lettrs. wth Lodwick at auction o. with Sr C. Wren at Childs. Hosk. interrupts. at Jon. o. Sr T. Stamp Ld. Mayor by — Votes, Pilk. —, More —.[1] Rain. 22000 men to be raysd for Ireland. Beer 9½. at Tompions.[2] Haak at Jon.

Fry. 22. HH tea. Dr Lauson in my Parlor. In MF *Virginia Silkworm* &c. 6d.[3] at Jon. o. Pif, Wall, Gof, Lod, &c. DH. At Huzzy auct. o. Waller tea. At Jon. Capn. Paggin[4] told me he had received a letter from Capn. Newland of Cows, that he had recd. £13 from Rob. Giles to be paid to me: he had the money, but I not having received the Bill of Exchange from R. Giles, he carried back the money. Parliament voted 307000 for six months war(?) for Ireland. Esmore. Dunbarton's souldiers sayd to be shipt for Holland. Discourse of condens'd air and walking under water. Waller here. Saw 5 small hand mortarpeices at Kettles.[5] NB the figr. Haly a sayling.

Sat. [*23*]. Mm. 2½s. Dr Lauson here in Repository. HH tea. MF o. At Jon. o DH. At Pauls o. [At] Jon. Votes. K J[ames II] sayd to have Landed at Kinsale the 12 instant: Convention in

[1] Luttrell gives the numbers as Pilkington 1800 (elected), Stamp 1800, Sir John More (for reason stated above) 900.
[2] The eminent clockmaker.
[3] S. Hartlib, 'Reformed Virginian Silkworm'.
[4] Captain Paggin acts as intermediary in Hooke's business with Giles of the Isle of Wight.
[5] Joiner and box-maker.

Scotland to have adjournd for 8 days, to have summond [Duke of Gordon to surrender] Eden-b[urgh] Castle.

Sun. 24. DH. at Jon. little. N Youn[g] & R. Heer. Shift new. 1.

Mun. 25. Lady Day 1689. HH tea. To Dr Tison & Dr Lauson. At Jon. Ld Sunderland letter. with Dr Lauson to Dr Busbys. to Court of Requests. Act of Indemnity[1] recommended by K. W. in Commons. At Dr Tenison. At Jon. Pif, Lod, Gof, Curr. DH. Dr Lawson promised *Portugall Grammar.* Great fire this night at Hermitage staire: 60 houses sayd to be lost: Edinburg Castle surrendered and a great fight in Ireland. At Mrs Mores, 2 Bantam ladys. Tea. With Pif to Childs Milles Catalog Gulston.[2] at Hussys with Waller. At Jon. Gof, Lod, Spen, Cur, Pot, Pag: Coronation o[a]th confirmed, B comp[3] refus'd.

Tu. 26. br. 7. Haak & HH tea. In MF o. Jon. o. Rd. letter from R. Giles & PP. bill for £13 which he paid at night in G.⊙.[4] DH. Slpp. At Dr Gale, at Auc[tion] o. Wallr at Jon. Scotch Account. At noon Mr Henshaw stayd 2 hours. Witsens *Map of Tartary & Relation.*[5] Expt. of Δ box &c.—o.

Wen. 27. HH tea. Mm. 22d. one Mr Gold from Dr Sherlock[6] about his house at Highgate.

[1] Act of Indemnity.
[2] Bishop W. Gulston's library was sold by Millington on June 11, 1688.
[3] Henry Compton, Bishop of London.
[4] Gold sovereign.
[5] Nich. Witsen, ambassador from Amsterdam.
[6] Dr. W. Sherlock, Master of the Temple and Prebend of St. Paul's.

in MF o. at Jon. the Relation of proceeding in Scotland: 5 Dutch posts, 1 french. DH. Gee from Dr Busby. R[oyal] S[ociety]: Sr R. Southwell of Sr W. Petty's double Ship of 14 tun brought over 40 persons from Ireland: Dr Martin's black marble. At Jon. o. 2 Bps. more sworn.[1] Told Aubery of *Speidell* etc.

Th. 28. Gould cal'd to goe with him to Highgate. With Gof to Kingsland. At Jon. o. DH. [not out] pp. til Jon. many Dutch & Flemish Gazets. Waller gave Thomas 5 *Catalogue*. HH Coz[en] married.

Fry. 29. Rainy morn. Algebra. Patchin calld 3ce. At Jon. o. DH. HH 3 tea. Left the MS. there. *Good Fryday*. Houses sat not.

Sat. 30. HH left Masc. [≡ manuscript]. tea box. With Gould to Highgate at Ld Elys. 3 pip. Return'd by 1 to Jon. o news. DH. At Dr D Cox: view of entry: I refused his fee. Great cold. At Jon. 3 Scotch paper. Mm. 2.4, br. 7d.

Su. 31. Much disorder'd by my cold. The day violent storms of wind, rain, hail etc. At Jon. o.

April

Mun.—April 1st. The night and morn exceeding stormy, hail, rain &c. I was much disorder'd by my cold. At John. Little DH. Lodwig here. too late to Huzzy's Auction at Sam's Coffeehouse.[2] At John. Gof, Lod, Spen, Cur, Mart. Harlem and

[1] Oath of allegiance to King William.
[2] Sam's coffee-house in Exchange Alley.

Brussels. little: Liege shelter French. Waring tells of the death of Sr R. Reding at [*unfinished*]

Tu. 2d. Very stormy. N o. at Jon. o. DH. HH returned & brought designe of Sarums almes-houses at Buntingford. n o pp. at Jon. 4 Scotch paper: news of K[ing] J[ames] death, More affected. Lod, Gof, Cur, Spen, Mart, apoth.

We. 3. fair [K J publiquly [*words erased*]] HH tea. Mr Waller here. At Jon. Gould & a french Writing master &c: noe news. Mr Henshaw till 3 pp. DH. Royal Society met not; only Lod, Pif, Wall. At Jon. K[ing] pa[ss]d 3 Bill. for terme, about deserters, about naturalization.[1] Hally returnd. Waring told me Sr R. Reding dyed March 21 & was buryed March 24 at Newwark. Mm. 2s; beer 9½d.

Th. 4. J. Mayor tea. K. J[ames] in Ireland. bra[ke] china. Jon. o. Sent home *Plinij* 5 vol. and *Speidel* to Hally. Mr. West invited me. N Young in hall: with Waller to Wild, saw his curious painted Plants. At Jon. Heads of Pole Bill. Gold and Abram. to bed 3. Of Prophesy ⊙rise.

Fry. 5. HH tea. Marth out till 12. Saw *du Hamels* 4 vol. at Mr. Wallers. Aubery his letr. Mett C. Goodman in MF, very gallant. At Jon. o. DH. At 4 Auctions. *Catalog* from Hooke. with Piff. at Childs. At Jon. Wal, Wild. Noe Commons votes disagreement. ED.DG. Hally. Curr—feirce. stock 7d. ∞.

[1] Naturalization of Prince George of Denmark.

Sat. 6. HH tea. Walkd to Baylys, thence to Bromly: head ake. Mans refresht by tea. At Jon. Cole of Bristol.[1] DH. at Wallers: Mr Cole drank tea. To Maitland's Auction,[2] Viewd Books. To Jon. with Waller. Scotch paper. Lit. etc. Mm. 28d.

Su. 7. DH. Haak tea. to Jon. o.

M. 8. Jo. o. To Wall. At Maitland's Auction with Piff: pd. 18 at Millingtons Auct. for *Marshami Diatriba*.[3] At Childs o. At Jon. Longland & Fouks. Haberdash[ers] Two inquird about my stable. One about Hospitall. I spoke to Chiswell[4] for Lords *Bannians*.

Tu: 9. Lawson & Neph[ew] here & in Reposi-[tory]: pd. 10sh for Pifs *Animals*.[5] HH tea & J. Mayor in MF o. At Jon. o. DH. with Pif & Bayly. At childs a telescope from Yarwell.[6] pd at Millington Auction for 2 *Glissons* 6sh,[7] for Clavius *Algebra* 1s.[8] At Jon. o. 2 boxes from Kettle.

W. 10. HH tea. With Dr Lawson & his kinsman to Dr Busby in the School Museum. Calld at Ro. Dan. with Sr Ch. Wren at Mans. At Caillous[9] o. At Jon. o. DH at D Cox. not at home. Some of R[oyal] S[ociety] met, o new. Wall, Pif, Cole, Lod, Gof, Spen, Cur, at Jon. all talk about Coron[a-tion] tomorrow. A very fair day. Bells ring at 12 at night. Ld Mayor Knight.

[1] See 'Early Science in Oxford', iv, portrait facing p. 95.
[2] Maitland, see Apr. 26. [3] 'Diatriba chronologica', 1649.
[4] Richard Chiswell, bookseller, at the Rose and Crown in St. Paul's Churchyard. See Wed. 17th inst.
[5] '*Memoirs for a Natural History of Animals; containing the Anatomical Description of several Creatures, dissected by the Royal Academy of Sciences at Paris*', Englished by Alex. Pitfield. [6] Celebrated instrument maker.
[7] Tract de Ventriculo 1677. [8] 1608. [9] Note 1, p. 113.

Th. 11. The Coronation. fair day & calm, not much sunshine. The whole Ceremony performed with exceeding great splendor, order & quietnesse as reported. In MF o. At Jon. Lod & Gof DH. At Auction saw some B[ook]s. At Jon. Scot reasons & declarations against K[ing] J[ames].

Fr. 12. Sent Mills Catal. to Sr J. Long.[1] At Jon. Pif, Dorwill, Currer all extolling yesterday shew. DH. o. Rd. at chamber 20 G⊙ & 3 50s[2]: gave 5sh. Saw some books at Millington Aux. Walkt with Gof. At Jon. *Brussells Gazet.*

Sat. 13. HH tea. 1 great chin[a] broke. D. Cox Son. Mm. 2½. With Mr Weisel about Water: to dine with him tomorrow. At Jon. Wall, Pif, Cole. Spake to Cap. Paggen about return of M. which he agreed. DH. Saw Wallers limnd plants. With him to Kings l[and]. At Jon. news of defeat at Colerain, 4000 said to be killed. Scots proceedings etc. Calcut with me about Golds building. French declard War with Spain Apr. 5 at Paris.

Sun. 14. Spraind my Ankle. Calld at Coxes & at Mans met Streater. DH. very lame. writ to J. Oliver. HH tea. N. Young Rob sick. t b. 10

M. 15. Swelling and pain aswaged. Mr Waller call'd. Mr Wesill here. HH tea. DH. Mr Waller here about Councell. HH then Lod & Gof, J. Gee from Westminster. Mr Beale about party wall. News of war with France. Irish defeat at Colerain confirmed. M. to N.Y[oung].

[1] Sir J. Long, D.N.B., gave Hooke an order for books, see 13 June next.
[2] Hooke's stipend as Cutler Lecturer was £50 per annum.

Tu. 16. Mr Beaumont's brother to enq[ui]re about ans[wer] to Mr B[urne]t last part of Θ *theor*[*ia*] *Sac*[*ra*]. Ventured to Jo. at noon HH tea. br. 7d, Silk & Gall. 9. DH. none here since noon. At Jon. at 8 & noth. Discovery in Geometry &c. Ankle yet sore and weak. Change new chimes.

W. 17. Ankle more sore. HH tea. Waller & Halley here. DH o. [At] Councell [of Royal Society were] Hosk[ins], Hil, Hensh[aw], Per[ry],[1] Tison: orderd paying Chiswell and Hunt: put off auditing Accounts. One here from Haberdashers Clark of Pewterers hall. Some 8 of Society talk'd. At Jon. Hosk[ins], Hill, Hall, Lod, Cole, Wall, Pif. Warr with France. Mm. 21d, fig 3d. Galoon.

Th. 18. M. beer 9½. Noe auditors mane. Farrans maid in Inner hall. pd. Martha 20s for quarter ending March 29 last. Ankle sore. 15sh fob. At Jon. Jefferys, late Chancelor dyed in Tower at 3 mane. Spake to Mr Gooday about L. Mayor. DH. HH pp. tea. He attended hall till 3: noe auditor came. With Sr Tho. Vernon, Mr Bodington, Mr Bauden, Chancey, Cap. to Haggerston Kingsland Islington to view ground for Almeshouse.[2] At Kingshead Islington stayed. At Jon. Cole, Hally, Lod. Mart[ha] out etc.

Fry. 19. Ankle still pained. n o till Jon. Hall, Pif, Lod, Gof, Cur. DH. At Mr Gooddays: with him to Ld Mayor for Gresham water. Strange story of the man that drowned himself at the

[1] William Perry, Royal Society librarian.

[2] An important meeting of members of the Court of the Haberdashers Company to consider a site proposed for their Almshouses. Another meeting had been held on March 18.

bridge.[1] I saw and read his paper at Mr Gof: Sams Coffe house with Pif & Wal: at Jon. nought considerable.

Sat. 20. HH tea. Mm. & br. 2.4d. Try'd tea at Gofs: with him to Skinners Hall, Guildhall. Met Dr Collins, spake wth Ld Mayor. At Jon. Met Lamb: Irish maps, advised publishing Vlster. Pif, Gof, Lod. Cor[onatio]n medal. DH in MF o. At Paules spake with J. Oli[ver] At Smiths o. spake with Chiswell. One Warren has answered Θ *Theoria Sacra.* Pd. Shoomaker for last shoes 4s, he crost his book. Chandler for 12 lb candles 4.4d. Ankle somewhat better. —irs York fraud (?).

Su. 21. DH. At Jon. Sr W. Temples son was the person that drowned himself on Fryday last.[1]

M. 22. Spake with Water-clerk in Barth[olomews] Lane to Mr Gofs about the water. Dr Paman[2] here tea. At Jon. Cole, Hains, Waller, Hally, Lod, Pif. I paid Mr Kettle for 2 more book boxes 8s, & bespoke 2 more. In MF o. At Jon o. Told Mr Beaumont brother of Warren against Burnet.

Tu. 23. St. Georges Day. Royal Society met, but not enough to make an election. Povey[3] complemented. Sr R. Southwell spake for Lecture. DH at Pontacks[4] spake for L. Rooks[5] papers to Dr Holder. At Jon. Sr C. Wren, Sr J. Hos[kins], Hensh[aw], Hayn, Hally, Aglion[by], Wall, Piff.

[1] John Temple flung himself over a wherry shooting London Bridge.
[2] Henry Paman, F.R.S., Gresham professor of physick 1679–89.
[3] Thomas Povey, F.R.S. 1663. [4] See p. 202 note.
[5] L. Rooke, Gresham professor of astronomy 1652–62.

Of Pliny &c Water restor'd to Colledg by Mr Gof. Began Cand[les]. Mr Ja: Youngs brother from Plimouth:—:

Wen. 24. Mm. br. 28d, broom 1s. Youngs brother at HH. J. Mayor tea. Ireland lost. At Jon o. Pif, Lod, Gof, Goodh. DH. Royal Society met: Hosk[ins], Hill, Hensh[aw], Hall, Lod[wik], Per[ry], Mil[lington], also Cole. Reckon'd & closd (?) with Hill. i.e. Paid 5℔ 4 for Mr Boyles 2 years and Rd 4℔ on 2 bills for cleansing meeting room. At Jon. Hosk, Hil, Hal, Hain, Lod, Cole, Hall rejoyce. 6 Bills past by K[ing], noe Votes D m D. Sr J. Cut[ler] daughter marryd this 12 months to Ld Rad[nor].

Th. 25. Cap Maker thankd me for setling his Right. HH tea. At Mills Auction. Jon. o. Pif, Gof, Lod, Cur. Ireland believed subjected to K. J[ames]. P[arliamen]t address the K[ing]. DH. in MF o. At Mills Auct[ion] o. At Jon. Str[ange] Dreams Etc.

Fry. 26. HH tea: try'd to make globuls in vain. Lime not good? To Caillous. Saw strang Marbled paper: I know how to make it. Calld at Haak. At Jon. Tom Crawly from Odiam. DH. Pif read Reasons about Oaths. To Ld Maitland Auct[ion],[1] pd 2.10 for *Canadensis hist.*; 1sh for *Monumenta Literaria Thuani*; bespoke 3f. tellescope of Yarwell. R[eceive]d a letter from Sr J.

[1] The first of the sales of Richard Maitland, Duke of Lauderdale, was held at the Bear by B. Walford on Oct. 30, 1688. The catalogue was 'incomparable'.

Long. Crawly with me till 8 pp. At Childs, Ald. Loue dead. Mm. Phesants meats. at Jon.

Sat. 27. One Mr Fips, a linnen draper, was here with Farran to see my Stable. I began Lecture. In MF o. At Jon. Gof, Lod, Pif, Cole, Crawly. Address and answer about french Warr. News of a french man of War taken by the English. DH with Crawly. Mr Bemdy[1] here about Ald[erman] Lucys house at Avemary Lane. Eat butter voyded thick snot. Paid Yarwell 4s for 3f. telescope for R. Gyles. Wrote to Sr J. Long. Mm. 3.2.

Su. 28. Crawly D here: stayd till 7 pp. Jon o. Wrote to R. Giles.

Mu. 29. HH tea. At Jon. Hewet gone before I came, misst sending letter. Cal'd at Lassels; heard of Capt. Knox arrivall. Goulds frenchman: Cave. 2 Dutch; 1 Flanders post. News of pe[o]ple burnt in Copenhagen. DH. at Maitland auction pd 6d Adrian Roman *method Polygonor,* Buxtorf *de punctis* 20d. At Jon. proclamation to invite French Protestants.[2] J. Craig call'd here.

Tu. 30. T Crawly here. To Dr Lawsons; he pd. 12℔ for all *Aldrovandus* viz. 13 vol. with his *Dendrologia.* At Mr Mosiers about the Temple. At Jon. Gould, Mr Hensh[aw] & Dr [ ] till 3½h. DH. at Wallers More limnd plants. At Maitland Auction, bought *Clementis musei instructio* 4s, Opelius *de trivium* 6d, Bauern *Ovid* 7.6, Bonani *Cochlea* 4.10. *De Moscovia et Germania* 1.1. Jon. Crawly Chocol. Fips, Waller, Cole, Frazer about Witsen.

[1] J. Van de Bembdy, F.R.S. 1678. [2] Steele, Proclamations, No. 3993.

May 1689

May 1. Wens. At home till 1 pp. At Jon. o. DH. with Mr Bullock view in St Mary Axe. Royal Society met 12, little worth. At Jon. Hosk, Hil, Wych,[1] Hall, Lod.

Th. 2. Noe auditors mane. With Bullock to St Mary Axe. 1 G. ⊙. At Jon. Goulds frenchman. In MF o. To Mr Mosier at the Temple. Saw Minor & Garden. At auction Enas *Coll.* 6, *fien* 5, *Liberalis* 9, *Senguerd* 4d, *Magninus* 6 *faber* 4, *terrae Motum* 3d. between 2 & 3 Read ¾ hour Lecture, in the hall Paget[2] & 2 other men and 40 children. br[ead]. 7d.

Fry. [3]. Beer 9½. HH tea. ₀°₀ [= Spirit of] tereb[inth] NB. the brightning iron instantly. Map from Mosier. to MS. 40s. To Jon. Chapman from Dr Busby. Held Exp[erimen]t of Circul[ar] pendul[um]. Letter from Sr J. Long. Read Hen. *Fabri.* Cole here and with me till 9.

Sat. 4. Mm. 2s. Saw Fips coach: viewd Bullock's house in St Mary Axe. At Jon. & post house o. DH. Saw physick books at Auxion. took measures of Temple. met Harbert. Call'd at Tompions. At Jon. Scotch paper. Got cold. wanting cat. brused my cheek. Peeper in Col.

Su. [5]. ill wth cold. DH. at Jon. 6, nothing. HH tea. — spy'd the etching on the black marble. t b [to bed]. B tea. New Shooe.

[1] Sir Peter Wyche, F.R.S. 1663.
[2] Paget, schoolmaster at Christ's Hospital, see June 6. ? F.R.S. 1682.

M. [*6*]. J. Mayor. Haak tea. At Dr Lawson's Mincing Lane. Dr Paman. Caryed draught of the temple to Mosier. With Gold to his wife in Gracech[urch] Street. Webster here about Rooks 5s. At Jon o. Pif, Wall, Hain, &c. DH. At Maitland Auction bought *Wecker* 4.6; *Hernandes* 4.6; *Aldrovan.* 8.15.0. *Curtius* 1s. At Jon. o. J. Gee from Dr Busbys. Haak say[s] Christian Hugens in England.

Tu. 7. To Auction, paid 5.10d for *Clem.* & *Buxtorf.* At Childs Dr Barnard At Jon. poll act. french League. DH. at Guildhall talked with Oliver. To Auxion pd for Wecker *de Secretis* 1s, Bartholinus *de Musaei Incendio* 7d. At Jonath. Fips about Stable. Scotch news Victory said to be in Ireland. Cole, Gof, Lod, Mev, Pif.

Wens. 8. At Jon. news of fight between the French and English in Bantre Bay in Ireland,[1] near 100 Engl[ish] killd & 250 woonded. Gave C[aptain] Pagen map of Brest. DH. At Maitl[and] Auction[2] bought *Zahn* for 11½s, paid for *Bartholini Comet* 6d,[3] *Portas Optic.* 1s, *Theon* 1s, *Euclid Optic.* 10d, *Adrian Roman* 14d.[4] At Jon. Gould about his house. Some of Royal Society met, viz Hoskins Henshaw, Wych, Waller, Lodwick, Pif, Cole. Veal.

Th. [*9*]. Capmaker & Hill. A shark from Pits to demand Bleau *Atlas* for Ald. Gardener in Kings

[1] Where French were landing stores.

[2] On this day John Bullord, a bookseller of St. Paul's Churchyard, began the sale of a 'Bibliotheca selectissima Generosi Angliae nuper defuncti' at Sam's Coffee-house in Ave Maria Lane. The sale continued on May 24. His later sales were on Dec. 2, 1689, on Feb. 3, 1689–90, and on Dec. 8, 1690 at Tom's Coffee-house on Ludgate Hill.

[3] 1665.

[4] Adriaen van Roomer (1561–1615), 'Methodus Polygonorum', 1593.

bench. Woodstock viewd Stable: sayd twould cost 40*s* to alter. To Gof. sought Munk atturny, walkd with Gof. At Jon. Gazet. DH. With Mrs More. Mr Wessell here. Wrot to St J. Long. At Jon. talk of the Seafight (Veal). Q. Christina dead: her history in Paris Gazet.

Fry. 10. With Capmaker to L[ord] Mayor, Jo Coventry &c. there. Spake to Mr More about attachmt. J. Mayor. Tea. Webster 5s. Cole of Bristo here: with him to Jonath. Capmaker foundation ticket. DH. At Guildhall for Webster, Lamot. At Maitl[and] Auct. o. At Jon. o. votes about a further tax on lands, houses, stocks etc. Mr Fips.

Sat. 11. Deliverd to Mr Smith[1] 6 *Transactions* more, which made 12½ Dozens at Capmakers. Bateman came not. HH tea. Mm. 26d. Walk to Auxion met with Capn Fusher, F. Vernon's crony, now a Cursitor, formerly at sea & at Tangier. At Childs Bernard, Hosk. Hally. To Jon. o. DH. To Auction: found *Zahn* imperfect, pd 24sh 6d, carriage 3d. At Jon. Gof, Lod, Spen, Cur, Cole, o news. Dream of B Scut: Newspapers for R Giles 4d.

Su. 12. DH. At Jon. Cole &c. o.

Mu. 13. Sent letter & perspective glasse to R. G[iles]. Set out Kirck Capmakers party wall to the satisfaction of all. Wrote lecture for Wensday. At Jon. o. DH. Caltrop here about Gould. Staid till 8. One about Arbitration in Fleet street.

[1] Samuel Smith, official publisher to the R.S.

Votes at Jon. and Brussell Gazets: little worth. Crage lent me his own treatise[1] to peruse, and David Gregorys[2] quadratures; he lyes at Stirrup in Shoo Lane.

Tuesday 14. Wrote Lecture. Letter from Sr J. Long wth a Bill for 25ll. on Mr Jonson. at Jon. o. DH. Shewd bill to Mr Johnson, which he promised to pay. At Auction—bought seuerall book[s] for Sr J. Long. Memmin here. also Calcut. found key in □ door. News of 7000 killd in Ireland. Paid 4½s for *Labyrinth de Versailles*.[3]

Wens. 15. finish Lecture. Capmaker and his here. Mm. 29d. paid at Auction for *Glauber* and 2 books of *Marinellj* 25d at Jeremys. Henshaw, also Dr Pits positive about θ. Jon. o Ha

(*a line erased*)

Read Cutler Letter to the Royal Society: present Henshaw, Hill, Hally, Lodwick, Waller. Paid Kettle joyner for 2 boxes 8sh, paid Jo. Walker 4s. Memmin and his friends Dr Borts the P[rince] of Nassaus physic[ian] and Mr Spanheim: I saw them not. Shewd Hally his mistake about penetration of Salt and ∇.[4] Viewd and saw the intended encroachment on Capmaker, a Rascall bricklayer.

Thurs. 16. Made Draught for Gold, Highgate: one Mr Heather here about a valuation in Fleet-street. In MF *Epictetus Junior* 4d at Jon. news of taking 2 french men of War by one English—

[1] J. Craige, 'Methodus Figurarum lineis rectis et curvis comprehensarum quadraturas determinandi'. Lond. 1685.
[2] Then professor of mathematics at Edinburgh.
[3] By Ch. Perrault, 1679.
[4] Water.

a Boatswain commanding her.[1] put in p. 20s. at Auction *Ovid in Rodeau.* 2½, Angos *Optick* 1½s. At Jon. Cole, Wallr, Gof, Mev, Ashb, Spenc, Curr. At Mrs Moors eat cheescake. Gold and Calcut at Jon.

Fry. [*17*]. Gold here to see his Draught. HH tea. at Auct. o. View Heathers house Fleet street. at Tompions. Jons. o. DH. finisht house dra[ught]. wth Waller to Auct. bought for Waller *P. de la Vals Travels*;[2] pd 6d for *machine di Tarduccj*;[3] Waller pd. 6s 4d for *Galileos Dialogue.* At Jon. Cole, Hally. Gold and Calcut appointed to call on Munday [ ] cat. Bread and beer. 23½d.

Sa. 18. HH tea. Mm. 2.4d. to Ch. Ch. hospitall: View Littleberrys.[4] at Auction mett Cap. Wind. at Haaks. News of Cluver [?]. at Caillous. Sr J. Hoskins. To Dr Busby, Dind with him. One in Westmr Hall about my Theory Spake to Dr Lock. At Call[iou] *Journal de Scavans*: Vol. 16. 2½s. At Jon. paid —.

Su: 19. DH. Jon. o.

Mu. 20. HH tea. tryd marbling paper. Dr Lauson came not Down: Gould neither came nor sent. At Jon. Craig and another: News that the East India Comp. had been chargd this morning before the Par[liamen]t. DH. Calld on Waller, he gaue me 27sh to pay for *Peter de La Valle.* At Huzzys Auction, bought *Barrow's* Engl: *Euclid.* pd 21d. at Jon. Cole, Hally, Lod, etc.

[1] By H.M.S. *Nonsuch*, a day before war was declared against France.
[2] Viaggi, 1614–23; Bologna, 1672.
[3] 1600.
[4] Bookseller, see page 205, note.

Tu. 21. Wrote Lecture. Bird here. Craig. in MF o. At Jon. Craig, Hally, Gof, Lod o. DH. Slpp. Cold. HH tea. Chiswell to employ Cramer. found ripd fob, lost o.[1] Lent Crag V sheet of *Journal de Scavans.* and d [elivered] 4 *Transactions.*

W. 22. Mm. and br. 3.1d At Paules. pd 1sh for tobac. ½ ℔. C. Knox[2] at Falmouth. At Jon. Craig returnd sheet. DH. Read a Discours to Royal Society, viz Hosk., Hensh., Mills, Mullins[3], Lodw. Hally, etc: Shewd Expt of ₀°₀ ⊕ and ∇ penetration: Hensshaw attraction of Amber. at Oaks auct pd for *Nova francia* 5d; *Blagraue dealling*[4] 7d; *Hobb's Philos.* 3.5. At Jon: *Exceptions to Indemnity.* 2d; *Observator.*[5] One from Bignall at Kingsland.

Thurs. 23. Carpenter from Bignoll at Mr Gof. Revise *Acta* from Dr Gale. Hethere here. At Jon. 3 dutch posts; the Curasao ships safe in Holland. DH. 2 Germans here about amber m — . At Hethers in Fleet street o. At Jonath. Cole, Lod, Gof, Spen, Ash, Cur, Hall o. confer in metallicum missing at Walf[?].

Fryd. 24. Bignols carpenter. Lent Lodw[ick] Dutch *Euclid.* With Lod and Gof to Bignolls, at Kingland o, View 18s Strangly built house. At Jon. Confirmation of Londondery standing out. DH. Dr Lauson here. in MF o. read Barrow

[1] He occasionally put money in his fob, see last 18 April and 20 March 1692–3.
[2] See March 10 last.
[3] Mullins, ?Dr. Alan Moulen, F.R.S. 1683 or J. du Moulin, F.R.S. 1667.
[4] J. Blagrave, 'Art of Dyalling', 1609.
[5] The new Observator or Mercurius reformatus, publ. 1689 on Wednesdays.

Lecture. At Jon. Cole, Craig, Hal, Lod, Gof, Spen: Toleration Bill past.

Sat. 25. Benjamin Hether 20*s*. 2 Spies about Stable. in MF o. At Jon. Henshaw till 3. wth Mr Waller to Auct. pd 6.8 for *Bonani*. Found *P. de la Valle* deficient. at Jon. Scot news of Dutch ships in the Frith. Cole, Craig etc.

S. [*26*]. N o. DH. Jon. Cole, Craig etc. Mr Fips Mackdonnells routed [by Capt. Young].

Mun. [*27*]. at Mans, Dr —. Sr C. Wr[en] at Hampton Court. Mr Boyle told me of Infusion of Crocus metallorum to clear the sight. at Coxes, she recouering of a great sicknesse. at Caillous o. at Childs Hally, Barnard etc. affirm London Derry taken: a sham. At Jon. o. Gazet. DH. with Waller to Auction, 3 Dutch Embassadors[1] make a splendid entry. Sr Charles Scarborous and Cap. Wind. At Auxion *English Miscellanys* Fol. Sold. At Jon. Lod, Gof, Cole, Crag, etc. New[s] of taking of Dundee.

Tu. 28. HH tea. New Map 11d. At Jon. DH. at Auct. Bought for Sr J. Long *Linscoten*[2] 12s 2d, *Websters Witch* 3.10, *Struis Voyage* 5.4d, *Pathway to knowledg* 4d,[3] my own *tracts* 3.6, *Gales Court* 20d, At Jon. Fips, Cole and Rednose, Henshaw and Hill.

W. 29. Restoration day. At Ld Mayors. Mr Crusius from Morhof, Wasmuth etc. Wrote Lec-

[1] Nich. van Witsen was one of them.
[2] Linschoten, 'Voyages to the Indies'.
[3] Recorde's Geometry.

ture. At Jon. o. french League. DH. RS met: Hoskins, Henshaw, Mills, Lod, Wall, Hally. Read Lecture answering object[ions]; shewd marbld paper. At Jon. Craig and his frend to borrow books. Mm. 2s.

Th. [*30*]. 6 lb. Candles pd 30d. at Ld Mayors for Bullock: at Gofs and Lods to Kingsland, Vink Bignoll brush in stable. At Jon. news of further victory in Irel[and]. DH. Rudger here. Haak here. At Auction pd for *Brooms Horace* 1s, *Wansleb Egypt* 2s. At Jon. Lod, Gof, Wall, Cole, Gazet news: Currer said that o°o[1] terebinth put wth Lint in hollow tooth eases pain: Lod says the same drank is a present Remedy for tooth ake. NB. a candle left burning in hayloft till past one at night.

Fryday. 31. Fryor of Shorditch here from Bignol. HH tea. M Beer. 9½ pd. met Mr Bullock and Viewers 10s. at Jon. K and Q Declaration about Seamen. Crag and Scot, Waller, Gof, Lod o DH. Slpp. At auction Manuscripts all sold. Met Wild and Aubery in Paul Ch.-yard. At Jon. Cole, Waller, Gof, Lod, Spen, Mevr, Ashby, Cur, Pot.

JUNE

Sat. [*June 1*]. Mm. br. 3.2. at Gofs. to Kingland. Certifyd View for Bignol.[2] at Jon. o. DH. with Waller at Auction o. At Jon. Gold and his wife. about module. Esqre Vaughan of Essex from Mr Green about his house. Mr Hooke Ld

[1] Spirit.
[2] Hooke was a professional 'Viewer' in his capacity of Surveyor to the City of London.

Hereford Chapl[ain] marryed his sister[1]. Com-[mons] impeach the Lords etc.

Sun. June 2. DH. at Jon. o. Esqr. Vaughan here; to goe with him to morrow morn at 6.

Mund. 3. HH and I with Vaughan in Coach and 4 horses to Burntwood, thence to his Seat and Sr William Applebys house: bread and butter. R[eceiv]d 1 G. ⊙ [1 Gold sovereign]; returnd at 4½. HH dind here. At Maitlands Auction Prints sold dear. At Jon. Gazet. of Gof, 2 Acts borrowd.

Tu. [*4*]. HH tea. Suttons view at Queens head[2] 1 G ⊙. At Jon. Bets[3] and Jesuites at Ld Mayors. Gooday, Gof, Lod, Cur, noe news. Wrote Lecture. returned Acts to Gof. At Blew bore: coach gone. At Jon. Scotch and Irish News.

Wen. 5. Fast for french war. Vaughan here: d[eliver]d him a draught for a house 40 foot square. Mr Waller about *Plato*. Euclid inscribd Polygone HH tea. at Jon. o. two messages from Dr Busby and J. Gee to meet J. Oliver to morrow. 10. J. Aubery his 4 Letters. Some of Seath Sarums mathemat. papers.[4] Wrights astronomick Epitomy not the same with his *Vse of Sphere*[5] printed. Found Lords Bannians and property book. Met Hill, calld at Childs o. at Jon. Hain, Pif, Gof, Lod, Cur, Spence etc. Mm. 28d.

[1] A Mr. Hooke, chaplain to the late Duke of Monmouth, was imprisoned in the Tower in May 1689, but was let out on bail for £2000 on 31 Oct. 1689.
[2] Perhaps Queen's Head Tavern in Paternoster Row.
[3] Dr. Betts, a popish physician practising in Lime Street.
[4] Seth Ward, bishop of Salisbury, died in this year.
[5] E. Wright, 'Description and Use of the Sphaere'. Lond. 1613, 1627.

Thurs. 6. br. 7d. HH tea promised to answ. And cald at Pagits Scool. Haak. Caillous, saw Sr Ch: Wren, Viewd Dr Busbys Cloyster house wth J. Oliver. D[ine] at Dr Busbys: at Romer Chairing Crosse with JO, JG,[1] Tufnell, Gregory, Collins. At Mr Boyles o. to Maitlands Auction, pd 2½ for *Tempest.* At Jon. One with a Note from Pitts pretending to be his Son. with Mr Moor. He seemd to haue concernes wth Pitts of 2000.

Fry. 7. HH tea. Marth. out till 12. at Jon. Wall, Pif, Gof, Lod, DH. walkd wth Gof, Lod, Wall to K[ings]land Vink Bignol. at Jon. o. 30 sail Dutch arr. [arrive?].

Sat. [*8*]. N o til Jon. Mm. 10d. at A[u]ction pd 3.10. for Webster, 3.6 for my own 6 pieces bound. at Kingsmill. At Jon. Gof, Pif, Wall, bror. Curr o.

Su. 9. DH. At Jon. Gof, Lod, Ashb, Cur, Spenc, Frank, Mart, Airs[2] o. NB that Mr — bookseller told me that Clare was a substantiall rich and very fair dealing man: he would trust him for 10000℔.

M. 10. fetch home *Zane Oculus* from Auction; pd porter 4d. At Jon. Lod, Gof, Cap Paggin, Wal, Pif: Gazet. DH. Marthas Countryman Sope 4d Wash. Lodwick here. At Jon. o. Lost little black Dog. Lod. pd me 9d for Dutch Euclid.[3] Examined *Zane.*

[1] Romer's Tavern with J. Oliver, J. Gee. Hooke and Wren dined there in June 1695. Gunther, *Life and Works*, p. 759.
[2] W. Aerskin, F.R.S. 1663. [3] See last March 12.

Tus. 11. Barnaby bright. Examined *Zane.* At Jon. Severall persons apprehended for spreading KJ Declarations: Gof, Lod, Cur, etc. DH. Wall, Pif. Walkd wth Gof, Lod, to K[ings]land.[1] Haake wrote q[uer]y for Sweden. At Mrs Mores. M . . . Danb; At Jon. wrote to Sr J. Long. Newtons paper from JG[ee].

Wen. 12. HH tea. At Paule J. Oliver. wth Gof at Me. at Jeremys. Sr M. Gresham, Dr Parman. At Jon. Cop, Pag, Pif, Lod, Gof, Cur. DH. Haak, Pif. Royal Society met, shewed Expt of making branched Mochus[2]: Hugens, Newton, Fazio: there with Pif and Wall. at Jon. then wth Sr J. Hosk[ins] one houre solus. Mm. 25d. Letter from Crouch about farm and about my last half [of] the rent. Mr Henshaw well pleasd with my Experiment of Mochus and ∘°∘ ⊖ cum ▽. Hally arguing against change of Polarity. Fips at Jon.

Th. [*13*]. HH tea. Noe morn auditory, but many in the afternoon, to whom I read 50 minutes. With Waller at Dr Gales. Childs. Henshaw. Receivd of Johnson at 3 Flower de luces in Cheapside 25℔, viz. 23 G ⊙ at 21. 8, oa. and 20 + vpon Sr J. Longs acc[oun]t. at Jon. o. DH. Lod Tea. Tobacco at Lassell 1s: lost 2½s.

Fry. 14. HH tea. M. beer 9½. at Woodstocks Fipps. Littleberrys. Ha Giles.[3] MF o. At

[1] Pepys 'walked over the fields to Kingsland and back; a walk I think I have not taken these twenty years; but puts me in mind of my boy's time, when I boarded at Kingsland, and used to shoot with my bow and arrows in these fields'. May 12, 1667.

[2] Mochus. Moss agates with arborescent markings. [3] Hannah Giles.

Jon. o. DH. with Pif. at Jon. Walk wth Dr Gale. pd 15s at Huzzys Auction for *Miltons Areopagita.*[1] Rd 12 volumes of *Aldrovandus* from Mr Hooke: examined them. At Jon. Gof, Lod, Cur, Mev, Hal, Spence. Noe news.

Sat. 15. Vaughans Goodwin here about the building. Mm. 20d, macca.[2] 4d, br. 7d. Haak and Mayor tea. HH tea. to Dr Gale and Esqr. Pepys. Dind there. Young troubles. Saw Modu[le]: discoursd of Rowing, antient Shipping, of petrifyed wood, Lignum fossile. etc. Met Haak at Caillous o: catch cold in head. At Jonat. Gof about Almeshouses: Wall, Pif, Lod, Hall, Curr: Dutch and English fleet sayd to haue sayled.

Su. 16. HH tea. read Barrow. At Jon. Au, Ash, Wich, Curr, Lod, Gof, Spen. HH tea. Pike in ♋.

Mun: 17. HH tea. Sought Woodstock, but mist him. Linger. at Mrs Moors tea. Fips and his carp[ente]r here in stable At Jon. news of taking Edinburg Castle. DH. Pd. at Auction 5.10d for Struys *Voyage*[3] and Bartholinus *de ovariis.*[4] Inquird about taking othe. Dr Paman here: Spake with Perry. At Tompions. Jon. Gof, Lod, Cur, Spencer; Vaughan about house.

Tues. 18. to Westminster. HH and Gof. by water 10d. At Mans o. left petrify wood at Mr Pepys. at Jon. DH. R[eceiv]d from Auxion remainder of Bookes. Wall here. Auberys Observations. Anger met me.

[1] Milton, 'Areopagitica, A Speech for the Liberty of Unlicensed Printing'. 1644. [2] Maccaroons?
[3] Jan Struys, 'Voyages and Travels'. Lond. 1684. [4] 1678.

W. [*19*]. Mm. 2.4d, told her own. HH ill and Hally in the Gallery. Rd a note from Dr Paman at Jon. DH. Lookd on stone about Meridian □. Hosk, Hensh, Hill, Aub, Slone,[1] Mills, Pif, Wall, Lod, Aglio: Leewenhocks letters. At Jon. Aglion, Hosk, Pif, Wall, Lod, Hall, Hosk, Shitt excomm: story. Hally shewd me *Leipsick Acta* Feb. 89. Common Counc[il].

Th. 20. bre. 7d. HH tea. *Acta* Feb: 89. Littleberry 1s. Spake wth Mr Hook at Auction. At Jon: news of seizeing severall persons and Arms.[2] At Smiths saw Fur Academicus. At Jon. Gazetts: the surrender of Edinb: Castle: Dane and Holstien agreed. DH. Slpp. MF o. to Jon.

Fry. 21. At Caillous o. Discoursd with Pepys of Dark Roome and picture box.[3] At Mr Boyles: he told me of clarifyed honey with Rosemary flowers, Good for my Eye. Apples Charing. Met Craig. tooke of Smith fur academicus at 15d. At Jon. news of London Derry releivd by Kirk and 3 Regimts.[4] DH. Slpp. Lodwick here, with him and HH to Molt chymist in fish street; saw his water and firework. Cald on Goff. to Jonath. Hosk, Pif, Wall, Hall, Lod o. pd for ½ lb. ₀°₀ ⊕ 18d. Addresse to banish French Papists out of the nation.

Sat. 22. HH out of town. Left Mr Gof his *Act.* To Hogsden Coffe. At Jon. Mr Green, Lod, Gof,

[1] Sir Hans Sloane's first appearance after his return from Jamaica.
[2] Luttrell, p. 549.
[3] Hooke's Picture box figured and described in his *Life and Works*, vol. ii, p. 755.
[4] Siege of Londonderry began April 20 and was raised on July 30.

Pif, Wal, Hall: French post, Fr. King's Declaration of War with England and Scotl[and]. DH. Fips agreed to take my Stable. Lookd Index of Journall wth Wall. Mm. 2.4d.

Sund. 23. M. out till 11. DH. at Jon. o. Frankl. Ashby, Airs[kin], Gof, Lod.

Mund. 24. Midsummer Day. Wash. 5d, br. 7d. paid Mr Hooke 12℔ for Bookes; there remains upon Account 22½s. Mr Johnson was by: he set down Rd soe much in my Note. I deliuerd the key of my Stable to Fips his man: Mr Fips promised to signe my note at Night. Read Barrow. Met Dr Pope in Cheapside. Farran askd about Fips his Coach. At Jon. Lod, Gof, C[apt] Paggen, Dorvill: Common hall addresse to Par[liamen]t for City and Offycers. Waller here: walkt with him and his Brother. Raskall Letter to Lod. Satisfyd of Gravity. HH returnd. At Jon. o.

Tues. 25. HH tea. Tryd Expt of ₀°₀ ⊕[1] and ▽ Wth Mr Waller at Repository. Wrote Lecture. At Jon. Gooday, Pif, Gof, Lod, Wall o. At home till 8. At Jon. news of Surrender of Keyserswart:[2] Relief of London Derry: of the Address of Common hall for Prot. officers to be admitted. Reviewd and read.

Weds. 26. HH tea finishd Lecture. Mm. 29d. Hally here. at Mr Fipps he signed the Agrement about my stable. At Jeremys none: at Jon. o. Pif, Hally, Haynes: Noe news. DH. Royal

[1] Spirit of wine.

[2] By the Elector of Brandenburg.

Society met: Hosk, Hensh, Hill, Mullins, Mills, Aubery, Lodwick, Pif, Hally, Wichs, Hunt also Mo[nsieu]r Justell[1] and D'ablancour. I Read a Lecture of the penetration of Liquors[2]. At Jon. Hosk, Hill, Lod, Pif, Wall, Hall, Mull: Express of Kirks entring London Derry.

Th. 27. HH tea. M. scold. At Guildhall saw townclark, Common Serjeant, Sword bearer Wells, Man, Monk, Pif, Bemde. at Bear auction paid Hosk. in full 7s, for porter 6d, for himself 1s, in all 17½s, he gaue discharge in full. Watford and Johnson there also. At Smit[h] proferd him 20s for *Plotinus*, he demanded 22. At Jon. Vaughan Gaue him a Schetz of his front: News of Keyserswart and Treaves being taken by Germans.

Fryd. 28. Wrote voyage of Johanna. Shift. Beer 9½. At Jon. news of taking 3, sinking 2, chasing 2 French men of war by Hollanders & English. DH. With Haberdashers to view Haws his ground, also some by Pitfeild Street, at Moregate Coffe-house. MF *Pomponius Lotus* 1d. At Jon. K[ing's] speech about Recesse. Haak here about young King of Cambridg.

S. 29. Wrote Voyage. HH tea. Mm. 3s. At Jon. Pif, Hall, Gof, Lod, etc o. DH. At Jon. Scots paper of Dundee dispersd.

Su. [*30*]. *Zahn.* DH. At Jon. bomb line. Gof, Lod, Cur, Spen, Air, Wich, Franklin: Tompion &

[1] Monsieur Henri Justel, secretary to Louis XIV, librarian at St. James's Palace 1681–8. D.N.B.

[2] The idea of 'Penetration' may have resulted from his work on metallic alloys begun in 1679.

HH here. Saw pistoll a[t] Gunsm[iths] in Katharine Street: shot a leaden bullet throug a Smoothing iron ½ inch thick. Perry call, Farran chit listned. put up papers in box.

JULY 1689

1. With Perry, Wells, Man, Briggs etc.[1] at Guildhall about oath: Stayd from 8 till 12¾, but could not get admittance. At Jon. Gazet little [news]. DH. Walk'd with Gof. read *Act.* At Jon. o. Paid milk in full 7½. Letter Craig 2d.

Tues. 2. HH tea. Wrote lect[u]re. At Jon. o: Pif, Gof, Lod, Cur. DH. Sl[eep] pp. Wrote Lecture. At Jon. Scotch paper little [news] Marlow get black Diamant.

Wens. 3. HH tea. Wrote lecture. At Jon. Sr Wil. Apleby, news of Kirck in LondDerry June 23. Mr Wall, a daughter born. DH. Royal Society met: Hoskins, Henshaw, Hill, Hall: dispute about Newton, of Leibnitz fallere fallentens. Newton & Mr Hamden came in, I went out: returnd not till 7. Mm. 2s. At Jon. Hosk, Lod, Hall, Wall, Pif. Hollands Currants &c. Read Paskalls letter to Lodwick. I read not.

Thurs. 4. HH tea. Mended *Aldrovand.* To White about coles: bespake 1 load. Saw his balls.[2] At Jon. Sr W. Apleby & Mr Vaughan. With Goodwin & his other carpenter and a joyner. Recd from him 20s. Put up *Linscotens Voyages* & 13 volumes

[1] Four Gresham Professors, Perry of Music, Wells of Divinity, Man of Astronomy, Briggs of Law, all accompanied Hooke to take the oath.
[2] Probably balusters as on 10th and 13th inst.

of *Aldrovandus* for Sr J. Long. At Jon. Wall, Gof, Lod; returned him his letter: Moscovits conquering Pericop & the Crim [Tartary].

Fry. 5. Recd 1 load of coles from White: pd 6d carman demand 15s. Br. 7d. pd Jon. 1s for carrying box & 13 volumes of *Aldrovandus* with *Linscotens Voyages* to Wiltshire, carrier at the Swan, Holborn brid[g]e for Sr J. Long; cord 2d. HH tea. To town-clark. Wiltshire at the Rose Inn on Holburn brid[g]e: I spake with him [as] he was putting up Sr J. Longs box. At Hooks o: At Caillous o. Queryd 4th volume of *Perrault.* At Jon. Pif, Gof, Lod, Carter. paid Kettle 3s for Sr J. L's box. DH. paid Lassell tobacco 1s. At Jon. o.

Sat. 6. Walkd with Waller, Gof—to Kingsland: Bignol at Coffe-house. At Jon. Scots votes & *Obseruator.* DH. peas. at Perrys Briggs. Cordovan gloves 2½; Mm. 2½. Pif here: one from Dr Busby. Lent Mr Pitfeild M° *Tachards Voyage to Siam*; Holland edition. At Jon. votes about Orphans, C. Charter etc. From Stinton 1 pr. of shooes. Argued with Paulet Poticary. Agent from Mr Mosier presented 2 G[old] ⊙ for templers. Sent letter to Sr J. Long post.

Su. 7. To St Peters Rd Sacramt of Perry. DH. Dutch Soldier hurried by. At Jon. o. Vaughan his wife and sister. fop.

Mu. 8. at Guildhall w[ith] Perry. HH tea. Observd azimuth. Sworn before Ld Mayor, Sr J. Laurence[1] etc. with about 20 minister: fop pain.

[1] Master of Haberdashers Co. 1664, and the Lord Mayor who in 1666 had praised Hooke's model for the rebuilding of the City of London.

Wells, Pagit, Perry with me. At Jon. Old — from Dr Busby. At Jon. DH. Obs[erv]d Azymuth. At Coffe-house Auction. At Jon. Hains, Waller, Lod, Spen, Mev. o: votes Act to be first passd. Pd 1s Register etc. Great Fire at Mincing Lane: Sr Ch: Muddiford's house burnt down this morn. Sultry hot.

Tu. 9. HH tea. br. 6. At Guildhall spake with Sr J. Laurence about quenching fires. At Jon. Hains o. DH. Sl[eep] pp: very hot. Rog[e]r Backon at auction o. At Jon. Hains, Hally, Gof, Lod, Cur, Mev; Dr Charlton marryd Thursday last[1]. Frightfull dream.

Wens. 10. HH tea. Mm. 2.4d. At Mr Mosiers about Rayle & Ball, 3 ft. 8 in. high; plinth, base, ballester and rail at 8sh per foot runing in Dutch Church. At Jon. Paris Gazet sham. DH peas. Read to Royal Society Cutlerian Lecture. At Jon. Sr J. Hosk[ins], Dr Mull[ins], Mr St George Ash, Dr Slone, Dr Aubrey, Hally, Lodwick. after-w[ards] Kettle from Parish 1 gu ⊙. Much thunder and rain mane.

Th. 11. HH tea. Viewd bulk at Capmakers. with HH to Caillou: saw 2d pt of *Tachard*. Met Mo[nsieu]r Justell; misst Mr Pepys. Met with Davys about rail etc. both of stone for the temple. At a Coffe-house with HH. calld at Smiths o. At Jon. o. DH. sl[eep] pp. Walkt with Gof and Lod. At Jon. Davis mason.

[1] Walter Charleton, 1619–1707, M.D., of Magd. Hall, Oxford. Physician to Charles II.

Fry. 12. With Mr Mosier. HH tea. At Ld Mayors with Kettle: he gone into Southwark. DG. power dupl. velocit. At Jon. Dutch and Fland[ers] post. Waller, Cur, Gof, Lod. o. DH: sl[eep] pp. In MF o. Aux o. At Jon. o but 2 Ital. Germ. Gof, Lod, Mevr o.

Sat. [*1*]*3.* Mmnt 19d, but. 4d, br. 7d, beer 9½. Socks 9d, letter 2d = 4.2½d. M. to N.Y. [Nich. Young's?]. With Kettle at Ld Mayors. adjusted *Zahn.* At Jon. Scots Acts for abrogating Episcopacy and incapacitating all abettors of the late Actings for holding offices. D[eliver]d HH the Mace [of the Royal Society]. Mr Mosier to the Temple, and cleared house to view Ballesters. DH. Tea at Haaks at Holburn Bridge. Fipps leaving my stable, because of his coach being robbd. 6lb of Candles brought in. At Jon. o.

Sund. 14. DH at K[ings] head, Southwark. At Jon. o, our fleet at Brest, French gone in. HH tea. Wr[ite] lect[ure].

M. 15. Lecture. HH tea. Jon. gaz[et]. DH. Sent paper to Mr Mosier about Davys. At Jon. sent letter.

Tuesd. 16. To Craig: executed 16: porter at Kings armes Holburn bridge. Owen King met physitians beedle at Guildhall, Tuesday. At Woodstock D. Colwall, very old.[1] Through Mincing Lane viewd Angell building. HH tea. At Jon. Scots plot. With HH to try object glasse. At Jon o. Woodstock calld, viewd stable.

[1] D. Colwell, F.R.S., see 4 Jan. '90.

Wen. 17. Mm. 2. DH bean Sl[eep] pp. At Jon. o. Royal Society met: Hosk, Hill, Hensh, Lod, Slone, Harwood, Moulins, Mills etc. I read not. Hally, Weeks, Hunt. At Jon Hosk, Hil, Hall, Lod, Waller, Moulin, Harwood: little worth.

Thursd. 18.[1] With Dr Smith and Mr Chancy to Pitfields street: At Leonnards coffe house. At Jon. Gazet of Landing men in Scotland.[2] D G. 54. momento Meridiei D O M G.[1] At Jon. DH. Waller and Gof here: walkd with Gof to Whitemore. At Jon. o.

Fry. 19. HH tea: J. Mayer tea: Dr Tison tea. At Jon. o. DH. Marθ at Tisons. Wall & I at Mart saw *Sandrarts Works,* Lat. Dutch. At Jon. o.

Sat. 20. HH tea. Mθm. 2½. Mr Pepys calld H. Fipps his man brought my stable-key and letter. At Jon. Scots votes o. Rain. Coppied *Cape journall.* At Jon. Mosier; then Gof & Lod o.

Sun. 21. DH. At Jonat. o. N Y[oung] children 2d. *Zahn.* peas. A kind of Alarum.

Mu. 22. Missd Huit in Southerick. Woeman from X [= Christ's] Hospitall again. M. wash 4d. At Jon. Gazet. Went back with Mr More. DH. Copied *Zahn's* figures. At Jon. o. Calld at Mr Lassells, met Mr Bayly. Received *Sandrarts* from Martin.

Tuesday 23. Viewd Martins *Sandrart.* HH tea. Pd. 1d MF *Light out of Darknesse.* At Jon. Scots

[1] Hooke's 54th birthday. D O M G, see pp. 151, 259.
[2] 600 or 700 Irish landed on the west coast.

news. Message from Esqr Rider, Dep[uty] Recorder. Returnd Mrs More china cover mended. Met Dep. Recorder at the Hercules pillers, Guildhall, about vault. At Jon. o. Hosk gone.

Wens. 24. HH tea. Mm. 20d at Dr Tisons. Tryd 3 Object glasses in cellar: Mr Pepys calld here. At Jon. Wall, Pif, Lod, Hall, o. J. Mayer here. Royal Society met: I read lecture of the Limits of Possible Discovery. Mr Henshaw recept certificate from Perry. Letter from R. Giles, his son R. G. lately buried. At Jon. Wall, Pif, Lod o.

Thu. 25. HH tea. To Mr Pep[ys] with glasses; dined with him. With Sr Chr. Wren at Mans. At Caillous o. At Jon. Pif, Lod, Gof: Proclamation about Saltpetre: 8 bills passd by K.

Fry. 26. HH tea. Sent a box of books by Wiltshire to Sr J. Long 8d. Calld at Rose. At Haak's. Return with Pif to Jon. List of Navy: cargo of Loyall merchants. DH. in MF o. At Jon. Gof, Lod, Piff, Hall, Spen: Oates Amendment insisted on by Lords: E[arl] Munmouth and young Citiz[en] at Swan.

Sa. 27. Box books. HH tea. Mm. 22d, kneestr 3d. Jon. Hain, Hall, Lod, Gof, Doro. Hal affront in Hall Bug Quaker.[1] DH. Mend hole in Wainscote. n o. At Jon. Gof, Lod, Spence, Martin: Exp[res]s from Scotland.

Sun. 28. N o. DH. At Jon. Ash, Lod, Gof,

[1] Bugg wrote against Quakerism.

Spenc, Mart: 3 Dutch P[os]t, 1 French P[os]t, shams. Goddard dro[ps].[1]

M. 29. HH tea. To Mr Boyle. Not to be spoken wth: at Caillous o. met Hally. to Jon. o. home. to Jon. 4 Harlems: Tres. Haws set on me, I refused him. DH. N o. at Jon. o. bespoke 2 boxes Kettle.

Tues. 30. HH tea. DH. to Jon. o. Lodw tea at Aub[rey] o. at Paules Oliuer, Hoskin, Lod, Pams. Returd Mr Griffith *Relation of ye Johanna* losse; he gave me *P. de la Valle* last volume in 12°. At Jon. 2 Dutch post, 3 Gazets.

W. 31. Mr Hill calld. At Jon. Wall, Pif, Gof, Lod, met Whitch. North hall water, from Wall. DH. Gave M. warn[ing] damn impud[ent]. Royal Society met: Mr Henshaw, Hill, Lodwik, Waller, Pif, Perry, Slone, Mullins, Aubery, Hally, HH. Wk. At Jon. Wall, Pif, Lod, Mull, Slone: Scots Water-raiser from Jo. Mitchell. Mist Smith, Sr Wm Appleton and 2 sons here: one dead at Bath. Sham Victory. Jo. Scarborow from Sr C. Wren.

August

Th. August 1. Lamas. Both houses adjournd. Head ake. HH tea. To Sr Ch. Wrens Oliuer going: sat wth S.C.W. till 2½: weary and faint. Drew Vaughans Vpright.[2] At Jon. o: Scots Wateraiser calld. At Caillous o: at Yarwell.

[1] Jonathan Goddard, Gresham professor of physick, 1655–75.
[2] Upright, probably a drawing of the elevation of Vaughan's house.

Fry. 2. Drank Northhall, 1 qt warm. Gaue young Appleton Vaughans Vpright. The water workt well: Cheerfull. At Jon. news of Mackays[1] being wounded. DH. Bohee and Longmore here. Waller, 3 sort tea: gaue him *P. de la Valles India* At Jon. Mayr: news of Dundees totall rout and death.[2]

Sat. 3d. Drank 2 qts Northall: wrote well, very much refresht. Resolud leauing to smoke. At Jon. Scots paper confirmes Dundees totall rout, killing prisoners etc. in Sterling Cast[le]. Colson, Gof, Martin. Mm. 19d, br. 7. anoth. affront. 12 *Bibliot.* DH. In MF. 0. at Jon. 0.

Su. 4. dr[ank] 2 qts Northall water; agreed. DH. At Jon. Londonderry relieved. HH tea. Wall[is] *Arith. Infin*[*itorum* 1655].

Mu: 5. wth Mr Waller to visit Dr Slone at Albemarl house, abroad: sought Sr R. Sowthwell, not within. Visited Mr Boyle; he promised paper of Firing Phosphorus.[3] Calld on Cox. At Jon. Gazet: Scots N[ews] Mackay beaten, Dundee killd. In MF 0.

Tus. 6. DH. View for Bohee and Longmore: 10s from Bohee. Walkd wth Gof and Lod to King's Land coffe. Met King, Heighthusen, Vinck etc: cald on Diapers. Boyle at Jon. 0.

Wens. [7]. HH tea. Aubery. Saw *Onuph Pan.* At Jon. Dutch Gazets 0. DH. carret. Royal

[1] General Mackay was commanding the Scots regiments from Holland.
[2] Killiecrankie had been fought on July 27. [3] See August 9.

Society met: Henshaw, Hill, Lod, Slone, Facio, Newton, Aubery. Havers read a discourse of the bone;[1] Perry, Hally, Hunt naturall Gause; Longitude man etc. adjournd to next terme.[2] Mm. 2s. Jon. o. Lod, Gof, Spencer.

Th. 8. HH tea. Rangd auction Catalogs. paid to Wm Beddowe collectr 4sh. for last paymt of Chimny money. At Jon. Gazet: London Derry seige raisd. DH. Sl[eep] pp. R. Young fecht somewhat Qu?. Wrote to Sr J. Long, account. At Jon. o.

Fry. 9. HH tea. Catalogs. At Jon. o. Hall, box, Barnard. DH. Phosphorus from Mr Boyle. Viewd vault at Hercules pillars. At Gofs tea. Walkt to Islington. in MF *Astrology book.* At Jon. Sr Math Andrews great Diam[an]t.

Sat. 10. HH tea. Mm. 21d, 2½ hours. At Jon. Scot Parl[iamen]t proro[ged] to Octo[ber]. DH. At Castleton wth HH. 1 G ⊙ rent to July 25. At Jon. Marlow strang news out of Ireland:[3] Gof, Spenc, Hall: Returnd to Lod 12 *Bibliothec.*, read Boyle *Flamific.*

Su. 11. DH. At Jo. o.

Mu. 12. To Mr Boyle, Frenchman there. Barnards Letter and alphabet. At Mans, Smith, Hayward, Ordinance, Carpenter, *Journal de Scavans.* At Caillou 2½s, borrow *Gervais's Description du Macasser.*[4] At Jon. Derry releivd, 6000 starved:

[1] Havers' 'Osteologia' was published in 1691. [2] Grillet, see p. 172.
[3] Irish were decamping from before Londonderry.
[4] Nic. Gervaise, 1688.

Gof, Lod, Wall, Pif o. At Dr Gales, Coffe. Spake to St Asaph. Mr Meredith. At Childs, Mills, Scot, Barnard. Frazer at Huzzys Auction, *P. de Valle* 9s. At Jon. o.

Tu. 13. HH tea. Hostler about Stable. Letter from Dr Chamberlain. J. Mayer cold meal. book for Dr Gale. At Jon. Lod: spent afternoon with him, Gervais *of Macassar religion.* Jon. o.

W. [*14*]. HH tea. Fit spectacles. DH. at Jon. wth Mr Henshaw, Dr Slone, Aubery. Letter from Sr J. Long. 3d. Sunflower. Eye sight. Eye Violl. Norman demands for Pole money 21s, for M. 2½s, Perry pd but 1s.[1] At Jon. o.

Th. 15. Returnd Caillou *Macassar.* Met Haak. Spake wth Sr C. Wren. At Mans o. Met Smith and Chamberlane. About Te. Dr Pocock born 1604. Dr Chamberlain 1616. Dan. Cox at Mr Boyles, in his coach back. At Jon. Gazet, little. DH. Sl pp. in MF o. at Jon. Hall, Lod, Gof, Spenc, Ma: Staying for Mates: Cave.

Fr. 16. Very rainy. HH tea. The yellow dust of Sunflower, like amber balls with prickles ✵. Motion. DH. Beer 9½ pd. At Jon. Mr Henshaw and Lod to Dr Slones: saw many pretty Collections: Echin strange, Siluer and Gold Butterflys, etc.[2] At Jon. o, Gof, Lod, Mev, Spen, Ashb. about transp. of Wool. N[ew] Shoos putt on.

Sa. 17. Mm. 22d, br. 7. HH tea. At Fipps, Rd 30s for Stable. At Whites, he in the Country,

[1] Pole tax.
[2] Evelyn visited Sloane museum on April 16, 1691.

coles at 32. At Gla-shops for eyeglass. At Jon. *Harlem Cour*[*ant*], Scots paper 0. 0. DH. Sl[eep] pp. In MF. Walkers *Particles* 1s. At Jon. Spen, Lod, Gof 0.

S. 18. Jour. Sçav. 87, 88. DH. Elliptic ⊕. Sl[eep] pp. quite blind right Eye: recoverd D[eo] G[racias].

M. 19. Head ake. HH tea. At Jon. Gazet. Inniskilling men victorius. Walker[1] arriud. DH. Newt. MF 0. At Jon. Harlems etc. 0. Wash 6d. At HH microscope.

Tu. 20. HH tea. DH. At Jon. Scots and Irish paper. Lod. here at Hallys. In MF saw many good books, bought 0. from Hally *Journ.* of 1686 and Minutes of 87, 88, and 89. Saw very notable Rainbow. The Pa[rliamen]t adjournd till Sep: 20. D n D. Kettel. Mr Streat buried.

Wen. 21. Paid Mr Norman for Pole tax 23½ sh., he crost his booke with a black lead pencill. Mm. 2s. paid the Chandeler for 12lb candles 4.6d. At Jon. Hains, Lod, Gof. DH. At Jon. Mr Hen, Lod, Slone, Harwood, Aubery til 6½. in MF. *Astrolog.* 6d. transcribd *Journ.* time = distant. 13. *Bibliothec*: Le Cron mad. Mr. Facios answer to D. T.[2]

Th. 22. To Mans cof. Hayward, Davis, Falman, Sr C. Wren at Hampt[on] Court. At Mr Boyles gold from a great depth in Earth. Dr Walkr there. Cacao at Caillous 0. at Haaks 0. Gazet. At Jon. 0.

[1] Probably Geo. Walker, the defender of Londonderry.
[2] ?Dr. Tyson or Dr. Tillotson. Cf. October 9.

DH. walk'd with Lod: train bands: new horses. At Jon. Ash, Lod, Gof, Meve. Shift. pedic.

Fry. 23. HH tea. paid Martha last quarters wages, 20s forgaue her the ½ crown pole. Sawd mast. At Jon. o. Lod, Gof, Dorvill. DH. Fermat. Ink 3d. At Jon. Lod o: yesterd[ay] met Pag, diab[olus?][1] brake watchkey.

Sat. 24. Mm. 25½. One from the Black Swan in Pater Noster Row came with a bill of 5℔ from Sr J. Long. I answerd I had noe aduice, but when I receiud any, I should doe accordingly. I writ to him that night. HH tea. Newton R. DH. At Jon. Harlem news of French rout. with Lod at Gofs, not at home. N o. til 8 pp. At Jon. o. Ink 3d.

Su. 25. DH. J. Cox here. At Jo. o.

Mun. 26. J. Mayer here tea. Mr Bever to see Martins picture books. At Jon. Gaz. DH. Sl pp. n o. Paris [*Gazette*?]. Jon. o. Cash 2 p.

Tu. 27. HH tea. Bread 8. Lettr from Sr J. L[ong]. MF o. at Jon. Dr Harwood, Hally, Gof, Lod. DH. Sl[eep] pp. Cavallerius. At Jon. o.

W. 28. Mm. 2s. HH tea. Cavallerius.[2] DH. At Jon. o. At Smiths o. found 6d. With Little-

[1] ?Paggin and the 'diabolus' did the mischief.

[2] Bonaventura Cavalieri, 1598–1647, wrote on logarithms and indivisibles. 'Directorium generale uranometricum in quo trigonometriae logarithmicae fundamenta, ac regulae demonstrantur 4to Bononiae 1632'. Hooke's own copy inscribed 'Robert^s Hooke 16d ex Auct Husseãa 8° Oct: 1691', one of the historic treasures of a public library in Oxford for over a century, was alienated from Hooke's university and was sold by the Radcliffe Trustees on May 7, 1935, for £6.

bury Mercers gate. At Jon. Mr Henshaw, Slone, Harwood, Lodwik, Mullin with trinket box. in MF o. at Jon. o

Th. 29. Tompion holes in [spectacle] frame. At Caillous o. Sr Ch. Wren at Hampton Court. At Cox, ⌣ not made: of his son. Met Haak. Dr Barnard Stone. Rhenish. Dr Pocock. Study Clark. Grumbledon. At Jon. Gazet, Harlem, Hally, Box, J. Gee. About Streets bookes. Dr Busby. sworn. DH. Hugens. Gof here walk, tea at his hous. At Jon. o.

Fry. 30. HH tea. N o. at Jon. o. DH. Newton. Jon. o. beer 9½.

Sat. 31. Mm. and br. 29d. Mr Awnsham Churchill calld wth bill for 5℔ made by Sr J. Long to Warne, by him assigned to A. Churchill. I appointed 3h pp. One calld with it at that time; I went with him and paid the 5℔ to Churchills man in his shop at the Black Swan in Avemary Lane at 3 pp. this day. At 9 to Streets in Steevens ally in King Street, Westm., nothing worth a farthing. At Mans rd from John Cox, Conca Convex glasse: saw perspectiue practicall. Translatd. At Jon. Hall, Lod, Goff, Curr, Martin. DH. Paid the 5℔ as above. Great shower. Bras ½ crown. At home till 8. Jon. o.

September

September 1. Sund. DH. Mar[tha] to Holburn. French beans loosning. At Jon. Stewards Letter from Mr Ashby, transcr. a part: proportion difficult. Fair day.

Mu. 2. Sope and Wash. At Jon. Gazet: Caricfergus taken. Walk with Lod and Gof to Kingsl[and], Vinck etc. At Jon. Hain, Hall, Lod, Gof, Cur o.

Tu. 3d. Stud: HH tea. Bras Microsc[ope]. At Jon. Scots paper: fight in Scotland: some Lds come in. DH. Obs[erved] Eclipse of ⊙ Sun with Hally and H Hunt, beat out propor[tion]. At Jon. Paris Gazet: Hain, Lod, Gof, Cur, Ald. Chambn, Dr Blackburn. Sight fail.

Wen. 4. HH tea. Cell for 2 eyeglasses. Mm. 2s. DH. Calme. Sl[eep] pp. At Jon. Lod, Gof, Hain, Hall, Hill, Slone, Harwood, Harbert: 2 Harlems. 2 m slips: severall of our merch[ant] ships taken: breach in Mentz walls. Nothing philosopicall. One from Goldsmith Child, Temple Bar. Spake to Hill of *Collections*.

Th. 5. br. 7d. To Childs, Temple Bar; then to Durham yard; View 10s. At Sr Chr. Wren office Well Banks. At Mans o. At Mr Boyles. Ticho Brahes mouable Celestiall Globe. At Caillou o. French Bookseller, Charing Crosse o. Jon. Gazet. DH. Sl[eep] pp. MF o. Jon. o.

Fr. 6. HH tea. Goulds French Spy. News that Cap. Knox was come. Catalog. Jon. o. Sl[eep] pp. Hally deserted *Transactions*. Much rain, after exceeding starry. Hugens. 2 book boxes from Kettle.

Sat. 7. J. Mayor. Mm. 21d. DH. Mr Bembde, Lord Radnor, Sr J. Cutlers heir at Mr Lassells. Cap. Knox gone on bord. At Jon.: Scots paper.

Letter. Sl[eep] pp. Hugens. In MF o. Strange clearnesse of sight. At Jon. Wild, Aub, Spen, Cur, Lod, Gof, Martin, Marlow o.

Su. 8. Wallis *Mech.* DH. Joh. Cox tea. Jon. returnd Ashby letters. Tompion.

M. 9. HH tea. Apples 6d, pan Mayer tea. at Lassells: mist C. Knox. Paid Kettle 9sh for 3 boxes in full. Visited Colwall: Mumford came in. At Jon. o. DH. in MF o. Wallis *Mech.* Very rainy night. Put 20s in pn (?).

Tu. 10. Cramer here. p post letter from Fraser. br. 8d. ba[ked] apl[es] DH. At Jon. Mentz surrendered: Scots paper. Wallis *Mech.* Saw Map of Tartary by Witsen at Frasers in Racket Court. Hussys auction o. At Jon. Gof, Lod, Cur, Ashby, Mev, Spencer, Waller. Taliput Leaves from Capn. Knox, found at ticket.

W. [*11*]. HH tea. To Mr Gof: with him set out Tildens foundations 19 foot. To C. Knox ship at Red house by Deptford: landed back at Shadwell 10d. At Jon. Tomsons view 5s. DH. At Jon. Lod; none els of Royal Society met. At Hussy's Auction pd for Golii *Lexic. Arab.* 10s. 2, *Lansberg* 7d. At Jon. o in the morn. Sent home by Ned imperf[ect] *Zahn* and 2 vol. of *Aldrovandus* to be delivered to Mr Hooke at the Bear in Creed Lane: paid Ned 6d.

Th. 12. Aequinox. Missd my Ringdial: queried Hally, Hunt, Waller. Large cemented ⌔ brake. At Caillous Wind. Sr Ch. Wren not in town. At

Mans, Harris. At Mr Boyles, Sr Edmu: King, de Bemde. Saw Mr Boyles Picture at Van der Vert, Henrietta Street with Sr Edm. King. DH. At Auction paid for *Praisac* 4 *Opusc. Mitholog.* etc. *T. Galij* 20d, *Drusii Theophrastus* 3d, *Sententiae vet Comicorum* 9, for *Sanderson, Fromunds Gram. Graeca Gualterij* 0. Saw picture at Sr E. Kings. News from Ireland of the revolt of Irish etc. At Jon. Ashby, Mev. Lod, Gof, Spenc, Scot. Bras wire 3d; Candles 15d. Sr H. Tull[se] buried, Ld. Bellasis and lord Biron dead.

Fr. 13. HH tea. sent by Jasper Call, Wilshires man 2 collect[ions] to Sr J. Long. Recd. Ticho Brahes globe from Mr Boyle. Call at Smiths feathers. At Jon. 0. Mr Henshaw till 3. DH. Walkd with Mr Lod. Lent Mr Lodwick *Morhoffii Poly. Histor.*[1] At Jon. 0. Marlow, Neil, Lod, Curr, Hally from London Garden at Fulham. Inquired Ring diall. Tompion from Grean.

Sat. [*14*]. At 3 Fox Court Dorrington View 10s, one ½ ⌓ naught. Returnd Neil[2] his table of Engl. & Scots weight. Some of the Mint imprisond. At Han. Giles abroad. At Jon. news of the totall defeat of the Turks by Pr[ince] Lewis of Baden.[3] DH. Apple juice. Sl[eep] pp. Sight clearer. In MF 0. At Jon. 10 posts confirm the Turks overthrow: Lod, Gof, Ashb, Cur, Spenc. Wrot to Sr J. Long. Mm. & br. 2.2d.

[1] D. G. Morhof, 'Polyhistor', 1688.
[2] Thomas Neale, master of the Mint 1678–99. F.R.S. 1664.
[3] On August 30.

Su. 15. DH. Aubrey. Sr J. Longs letter for Mr Wood about Newton. Tompion. Ticho Brahe globe. At Jon. o. Thunder lightning much rain.

Mu. 16. Found Ring diall. Demonstrated equall motion in parabola. Fitted brass microscope.[1] Wash sope 4d. Shift. At Jon. Gazet: the Turkes utter rout. Bon surrenderd.[2] Pd 2d for Wilpers *Epitom. Astronom*: MF. HH soderd microscope. Aston in Library. At Jon. Hally, Gof, Lod, Spen, Cur, Paulet o.

Tu. 17. HH tea: sodered microscope. J. Mayer. DH. turneps, agreed. 50 pip: 6d. At Jon. 3 posts: little news. Vaughans carpenters.

W. [18]. Mm. br. 2.7d HH tea Soft soder Microscope from Mr Henshaw: markt it and returnd it; shewd him mine. DH. At Jon. Hensh, Hill, Herbert, Hally, Harwood, Slone, Lodwick: good discourse with Henshaw.

Th. 19. at 12.39½ mane began Eclypse of the Moon. Immersion at 1.36. Emersion at 3.18; the end at 4.19. Sat up to 5 mane. HH tea. Mr Thory, the minister of Brading, who calld yesterday from R. Gyl of Brading was gone out of town before I could get to his lodging. At Lassells. Smith at Feathers. W. Leibournes *Proposals* for printing a *Cursus mathematicus* in English on subscriptions.[3] Took at Mr Charltons shopp in Pauls Churchyard 2½ yards of cloth at 16sh per yard.

[1] Perhaps one of the first microscopes to be made of brass in England, with the help of Hunt.

[2] To the Elector of Brandenburg.

[3] Published 1690.

I promisd to bring him the money for it. Kittens. DH. At Jon. o, spake to Cap. Paggin of exchange. Lent Mr. Hally my wooden quadrant, 2 foot radius. Lent Mrs Lodwick coppy of Ashby's letter. Walk with Lod. At Jon. o. Young theif.

Fry. 20. A Gentleman saw my stable, proferd 8℔ per annum. Mar[tha] 3 doz. buttens 18d, silk 9d, thred 1d, flower 4d, in all 2.8d. At Jon. o Hally, Currer, Gof, Lod, Lingar. Parliament met and adjourned to October 19 next. One Wilmot with one from Mr Ent. Saw Beverel at Waring. Spake to White for 1 chaldron of coles: he demanded 34sh per chaldron.

Sat. 21. Mr Stracy and his neighbour a quaker with Brown bricklayer. A view in Pudding Lane 7s. Mm. 20d. HH tea. Mr Stillingfleet and his tenant about my stable. I told him he should have it this year for 8℔, provided he layd out 40s for making coach-house doors. At Jon. Harlem Slip: Scots paper: News post: Drogeda besiegd. Pd HH for tobacco 1lb, 18d, for candles 3lb, 15d. DH. Sl[eep] pp. In MF o. Wrote Rubmot: Hally returnd quadrant.

Su. 22. DH. Jon. Brown, Ashby, Franklin, Lod, Gof, Cur, Spenc: Great fire at Kings bench in Southwick, 50 houses burnt and blown up. Discoursd of Dutch fire-engine.

Mu. 23. One load of coles from White, for which I must pay 16½s. HH tea. Calld at Lassells, Mr Coxes etc. Cap. Knox calld here. At Jon. Gazet.

DH. With Gof at his sons at Lassells. Gof tea here. At Jon. o. Hally, Hain, Gof, Lod, Cur, Spen.

Tu. 24. With Gof and Cur to Black fryers, where the master was 3 days since killd by his Engin. Saw the curling mill. Call'd at Molls: saw his wife & child: bow ballet.[1] Receivd from Capn. Knox 2 books: one in Arabic, another in Malabaric characters. At Jon. Harlem, Amsterdam, Scots paper. DH. Sl[eep] pp: studdyd. At Jon. Cap. Knox 6d: good discourse of Mauricius, the Cape, Bombay etc. Bespoke shooes. Ebony very black when cut: true musk to be had at the Cape of Good Hope: I saw 3 cods of it. The Malabar arithmetick the same with ours, characters only differing.

We. 25. Mm. 20d. DH. At Jon. Mr Henshaw lent me his 13 Bibliotheca. I shewd him my Brachman *arithmetick*. Stayd there with Lod till Hally, C. Wych, Hill came, to whom I shewd my book. Wych invited Hally. News by Ald. Horn that Dublin had declard for King William and Queen Mary. Calculated velocity of falling bodies. D O M G.

Th. [*26*]. HH tea. Calld at Smiths o. At Calliou, he gave me his french Catalogue. Met Mr Wigan: he promised to print Mr Mercators *Logarithmo technia*,[2] and to shew me his Water-engine, and some other papers, and suddainly to call at my lodging. Met there also Mr Dwight,[3] he told me of

[1] Perhaps a ballad.
[2] First publ. 1668.
[3] The celebrated John Dwight of Fulham.

his transparent china etc. Sr Ch. Wren gon to Hampton Court. At Mans o. Discoursd an howr with Mr Boyle. At Jon o. DH. Sl[eep] pp: improvd apace. Mr Hally desird to see my 4-foot telescope which I shewd him. He took back his two Journall bookes. At Jonath. Ashby, Spen, Cur, Gof, Lod, Mever, Paulet, NB. Chickee Linnen. To see Japan Screens at Fredericks and Hernes. began my Defense. Spectacle Wire.

Fr. 27. HH tea. Mr Southby and Mr Pargeter about my stable and agreed to make coach-house doors. At Jon. o. DH. Letter from Sr James Long. Mr More here for chocolatte. I visitd Mrs More sick. Mr Foot, Dues and another there. Tea. at Jon. o. proceeded with Defense etc. White about coles.

Sat. 28. HH tea. Lord Mayor Pilkington[1] continued. Harlem and Brussels at Jonath. Mr Cox sone not at home. At Jon. DH. At home till 8 p.p. Mm. 2s. Streightned voluta.

Sun. 29. DH. Aubery here. At Jon. o.

Mund. 30. HH tea. Pd M. for letters 9, sope 4d. At Richardsons in 3 Fox Court, view 10[s]. Saw Hanna Giles. At Jon. Gazet. Man brought mesure of chariot 16 foot. In MF o. saw *Petit* and *Besson*. At Jon. o. J. Mayer here for stable for Ack-

[1] Sir Thomas Pilkington, Lord Mayor 1680, 1690, and 1691, when he died.

October

Tue. Octob. 1. Southby & his carpenter askd 5℔ for altering stables. At Jon. o. Call at Southbys, saw Pargeters letter, saw young Neiles shop in Bartholomew Lane, not out till Jon. o: wrote Discourse.

Wens. 2. N o till Jon. DH. Lod, Gof, Hally: box Harlem, Brussells Amsterd.: little news. After Slone, Harwood, Sr C. Wich, Hill, Mullen, Aubrey o. diem perditi. Collet for oyle. New lodger in Wells lodging. Wrote discourse M.m. br. 2.7, candles 15d; Jon. 4d: 3 fishes from Cap. Knox.

Thu. 3. Rain. At Smiths Fethers. Tompion, Haak: home. Jon. 5 Flanders posts. DH. Sl[eep] pp. Pif 2 houres. 13 *bibliotheca.* Facio and Letis[1] accounts. At Jon. Mr Vaughan returnd out of Wales. above Gof, Lod, Mev, Cur gave him q[uerie]s about sight.

Fry. [4]. HH tea. 21 lists from HH, shewd him Banian book. Deliverd him 3 fish of Knox. Mr Pepys calld, proferd guin, which I refused. I shewd him severall Opticall Exp[erimen]ts: the Double Reflection of glass; the reason of the foci; the bringing in objects by the Telescope etc. He invited me to dine. At Jon. 2 Harlems and slipps: news of a defeat of the Irish by Kirk: Pif, Gof, Lod, Cur, Martin. DH. Cutt patern etc. Load of coles from White rounder a little: I now owe him 33sh and 14½s for all 3 loads. Sc: J. d. g. coles 6d, M. beer 6d.

[1] G. Leti, F.R.S. 1681.

Sat. [5]. Cut coat. At Carolina coffe-house saw the chickea clout, warp, doubl. and both twisted threads and interchanged every bread: woof, two twisted thread breaded about the warps twisting: exceeding supple, strong & neat, also striped with red and black with a wale thereon not interchanged. At Dr Colwalls he desired tea. I urged him to cause his hosp[ital] children to write journalls. Haak about Dr Barnards Alphabet.[1] 1 for me. Cap. Knox black staining nutts: discourse of Cape Bon Esper[ance] garden 1 mile long. Mm. br. 27d. at Jon. Knox choc. 4d.

Sun. 6. DH. N. Young & 2 children here: trouble. Jon. news from Mans that Dublin was taken. Haughton troublesome.

Mun. Oct. 7. S[amuel] Smiths man had 3 *Transactions,* which made 12 dozen and 9. HH tea. J. Mayor tea. Cut breaches. At Jonath. rout by Slego confirmd.[2] Hall, Hain, Cur, Lod, Gof etc Haak, Pargiter, Man, J. Gee. DH. Gof with tea sample at 5.6d. At Jon. o. Hain, Hall, Cur, Spen, Mevr, Marlow, Gof, Lod: chat.

Tues. 8. Rattle M. mad breach. HH tea. In MF strangly refresht. Saw Petit *de Vacuo,* Besson of Waterfinding,[3] French gardener.[4] At Jon. by forrein Gazets, Turks totally routed: Nissa taken;[5] Bon also beleved taken. Hain, Hall, Bo, Lod, Gof,

[1] Ed. Bernard, 'Orbis eruditi literatura à charactere Samaritico deducta', pr. on one broadsheet 1689.
[2] Sligo. Luttrell, p. 589.
[3] Besson, 'De ratione extrahendi olea et aquas'.
[4] By Evelyn, 1675.
[5] By Lewis of Baden.

Cur, Mart, Pif. DH. Sl[eep] pp a little cold. Foukes told me of J. Ol[ivers] son, hangd himself. Sc. J. D. g. ppt. letter from Dr. Smith, of Dr. Barnards Alphabet.

Wen. 9. Tea box pp. Mm. 20d. N o til Jon. o. Hain, Pif, Hally, Lod, Neil, C. Knox 2d: Paris Gazet: at Smith feathers o. Returnd Mr. Henshaws his 13th Bibliotheca. At Jon. Hill, Mullen, Mills, Hally, Lod, Henshaw: chat. Transcribd Facio's answer to DT. Letter from Vaughan by Lingar. Shift. at Jon. o. Simons & Farran quarrel in hall.

Th. 10. Cald at Haaks: removing goods at Calliou o. Sr C. Wren just gone. Dr Barnard Alphabet from Smiths maid. At Mr Boyles: at Mr Gofs tea. At Jon. Gazet o. From Stinton 1 pr of shoos, this made 3 pair n.p.; 3lb Candells 15; Mop 11d.

Fry. 11. HH tea. J Mayr tea. M. paid for 3½ yards of Shalloon 7s, for silk 1, in all 8s. Catalog from auction at the Bear,[1] another from Tom at Miles. Visited Dr Gale stayd with him 1 hour. White. Dining at Jon. Gof, Lod, Pif, Cur, Gooday, Meredith. gaue Tom a penny. To the Chamber I recd 25℔ for michaelmas half year: gaue Kendall 5sh, paid Martha last quarters wages 20sh: she sd to change it for new money at African house.[2] I paid Stinton for 3 pr of shoos 12s.: he crost his booke and made Rd in full. Stainingе nutts from Cap Knox.

[1] B. Walford held his auction at the Bear, Ave Mary Lane.
[2] Africa House. ? in Warnford Court S. of Leadenhall St.

Sat. [*12*]. Mm. 19, 2 washt skins 14s, m: beg. coat. HH tea. Study. Jon. o. DH. Hally tea. I paid Mr Cooke for the 2 yards ½ cloth bought Sept. 19 last, 40sh, he crost his book and made it pd. At Mr Riggs in the Temple viewd a foundation vndermined. At Jon. o, study. Called at Tompions, saw a most curious gun beyond any for neatnesse I had euer seen. Met Mr Gidly there he and the Gunsmith both affirmed that washing bright iron or steel with Aqua fortis and after washing that away with fair water and Drying it well, would preserve it from rust very long.

Sun. 13. no DH. Shift wastc. and shoo. Tompion tea. At Jon. from Rigby 1 G ⊙ D.G.

Mun. 14. Fetch tea box at Mr Godfr. Mr Godf. and I at Mr Hunts weyghed the 2 boxes. Myne weyed full 15lb haberd[upoize] wanting $\frac{13}{23}$ troy, the box empty 2½lb. hab. more $3\frac{13}{23}$ troy. Subduct box and $\frac{13}{23}$ w., remains very neer 12lb. 3 ounces: at 5½sh 3.7.0: paid porter 6d Soe the whole comes to 3.7.6d. Paid Mr Godfry at Jonath. 3.7.0., he seemd not pleasd, but would not haue more. A very Rainy day. Vnfit for study, yet finisht perpend. descent. Bought of Jonathan 2 lb. of Cacaos: so I now owe him for 8 lb. after the rate of 9d per lb. which is $12\frac{6}{7}$ shillings. Vpon missing chocol. much disord. Dreams. Very rainy night.

Tu. 15. HH tea. Headake. At Jon. o. Pif, Wal, Gof, Lod. DH. In MF pd 2d for Cardani *Ars Curandi parva* etc. A ticket to goe to Sr G. Ents[1]

[1] The eminent physician. His paper on the weight of a Tortoise was printed in the *Phil. Trans.* for 1691.

funerall on Thursday; he is to be buried in St Laurence. at Jon. C. Knox 4d. Noe news true. Bread 8d.

Wed. 16. HH tea. Mm. 2s. ill tast. At Jon. 3 Harlems: Bon surrendred on articles, 3800 marchd out: Ottoboni chosen pope.[1] DH. Haak, that the dripping of a roasted Eel dropt into the Ears cured Deafnesse: also that chewing of dryd orange Pills cures the strangury, both experienced medica. Royal Society met first, Mr Pepys in the chair: I presented 3 fishes in a glasse; the Talapat leaf. Hally read his observation on Guilded Silver wire:[2] little els. I spake to Bemde of Witsen. At Jon. o. Hally spake to me to undertake his place.

Thurs. 17. Rose at 9. Mr Gof here to see Statute book. Tea. Hamiltons View in Scotch Yard 20s: views of Wharf. At Jonath. o. Gof, Lod, Hall, Jet, Cur, Wall, Pif, Gooday. DH. Sent 2 transactions to Sr J. Long: left it with the woeman that keeps the Inne. Calld at both Batemans o. At Sr G. Ents funerall, a Ring, home in moorning Coach wth Pett: At funerall Dr Tillotson, Dr Sharp, Sr C. Scarboro, Sr T Millington, Dr Collins, Dr Charlton, Sr P. Pett. Dr Hide in town, query lodging.

Fry. 18. To Caillous o. Returnd wth Mr Pif, took Catalo. for Sr J. Long of Mr Hooke. At Mr Weeks he promisd Cacao. At Jon. o DH. messengr from Coventry and Norman. Rain. n o.

[1] Pope Alexander VIII.
[2] Hally, 'Measure of the Thickness of Gold upon Gilt-wire', *Phil. Trans.* 1691, pp. 540–2.

til Jon. 5 Dutch E. Indiamen past by Dover, carrying 2 French E. Indiamen prises: the *Rochester* arrivd from fort St George: the *Nathaniel* lost: a rich Cales ship arrivd at Plimouth and 7 from Jamaica: one from Archangell in Yarmouth: noe news els.

Sat. 19. HH tea. n o. til Jon. Gof, Lod, Cur, Mar. Dutch and French post: little news. The Parlt met: Sr R. Atkins Speaker of the house of Lords: the King makes a speech which I read. DH. At Hussys auction saw some books: proceeded with Demonstr. Mm. and br. 2.8. Hall mad. Pargiter yesterday in town told Southby he would have my stable and be at 3℔ charge. S[at] up til 4.

Sun. 20. DH. At Jon. o. Waller here tea, algebra.[1] Advisd Cavallerius and Wallis.

Mu. 21. n o. till Jon. HH tea. At Jon. [*Harlem*] *Cor*[*ant*] o. DH. Southby about stable, also Mr Pargeters man calld. Candels 14d. At Jon. o.

Tus. 22. Beer 9. Deliverd Mr Smith 6 *Transactions* which made 13 dozen and 2 over. At Jon. Pif, Gooday, Lod, Gof, Cur, Hally, etc. DH. Lod here. Restord *Morhof* to Chiswells, and Auction at 3 half moons: pd for Libavius 2d, for Megiserus *Dictionary of 40 Languages*[2] in 2 Vol. 2s. At Jon. Paris Gazet o. Gof, Lod, Mev, Ashby, Cur, Linger o. S. U. [?sat up] till 4. Waller to Bristo.

[1] 'Treatise of Algebra', 1685.
[2] 1593.

Wed. 23. Term begin, Parlt met being prorogued on Munday. At Rigs in the Temple, View of foundation. Rd 20s. Wth the joyner and painter at Mr Mosiers. Later at Jon. noe news. DH. Royal Society met: Hoskins, Pepys, Sr R. Southwell, Mullin, Havers, Lod, Slone, Slare. I presented the Cinnamon and Manna leaves: Hally read his discourse a 2d time. At Jona. Esqr Vaughan, Sr J. Hosk, Hil, Hall, Lod, Mull, Pif. Mm. br. 2.4. Designd 2d floor for Vaugh. Simon dr. at 2 mane.

Th. 24. Stayd for Esqr Vaughan at Jon. till 9. Left his draughts with Lingar. to Caillous. o. Met Sr. Ch. Wren at Mans in Court of Requests; of cole $\frac{1}{5}$, of Cacao, of fish ground etc, of J. Ol[ivers] son. Dr. Busby busy about grammer. Old Mar still at Wes[tminster] almes house draughts. At Jon. o. Noe auditory in Hall. DH. Slp. In MF o. At Jon. o. Cap. Knox: Manna tree calld Ossagoi in the Mauritius: Sanguis draconis tree some as big as a mans middle: wood spongy like a rush: beset wth thornes 2 inch long and sharp like furs: 6 or 7 sorts of Ebony wood, other close yellow wood like box: the Island Diego Rodriges or Digo Rois, east of Mauritius, as big as the Isle of Wight: an excellent Island uninhabited o. Of Trinidad etc.

Fry. 25. With joyner and painter at Mr Mosiers, not up. In MF o. Fair windy day. HH tea. M. afront HH. At Jon. o. Pif, Gof, Lod, etc. Spake with Pargeter about stable. DH. Sl. n o til Jon. o. Ashb, Gof, Lod, Mev, Cur, Pif: of E. India and ships: forgot *Catalogue* for Sr J. L[ong].

Sat. [*26*]. Goodwin from Vaughan about little stairs: advised winders. With Pif and Gof to Ryly painter. Calld at Haakes new Lodging. At Childs saw Hosk. and Hall. At Jon. o. DH: in MF pd 14d for Cardani *de Subtilitate*.[1] At Jon. Cap. Knox choc. ganges strange intoxicating herb like hemp, takes away understanding and memory, for a time frequently used in India with benefit: rice not injurious to the sight nor harmf. to the teeth. Mm. 17d, br. and so. 1s.

Su. [*27*] DH. Aubury, transcribd him last page of my attempt. At Jon. Ash, Airs, Brown, Frank, Cur, Spen, Mart, Lod o. Head ake. Cap. Pagin.

Mun. 28. Simon and Jude. Wash. 3 cb not out till 1. Jon. o. Hain, Hall etc. DH. J. Mayor, the cause of J. O[liver] sons fate. 2 men to have hired my stable, answerd them. At Walfo[rds] Auction o.[2] C. Knox. 1. puzled.

Tu. 29. Ld Mayors Day. K. and Q. entertaind at Guildhall, also PG. and Princesse, the Lords and Commons. In MF o: At Jon. o. Lod, DH. Sl[eep] pp. At Jon. Hain, Houton, Swift: English paper sheet: noe news. Capn. Paggin shewd me his Letter of aduice from Newland of the Receipt of 6 ℔. made some progresse. Gloves.

Wens. [*30*]. HH tea. At Jon. *Observator*. Hally, Pif. Perused Baudelot de Dairvals book *de Vtilité des Voyages* 2 volumes 8°. DH. Royal

[1] Printed 1554.
[2] Library of an anonymous knight, with some of Lord Maitland's 'curious prints and drawings' (Lawler, 172).

Society met: Hally paper about Salts: Havers read, Mr Povey complemented, Hosk and some few: chat. At Jon. o. Candells 14d. Mm. 17d. Capn. Knox sent his Journall by Ned.

Thu. 31. Bre. 8. At home til 11. noe audit. Restord Dr Gale[1] his *Poesis philosophica*:[2] he told me of strange overflowings in Yorkshire. At Christchurch mist Paget. Dd. to Jasper Call, Wilshires man, a catalog for Sr J. Long. At Caillous saw Weighelius his *Sphærick*: slight. Sr Ch. Wren at Hamton Court: at Mans o. Dind at Dr Busbys: discoursd of Dr Pells papers: of Logarithms: of Wallis. Saw Dr B. Woodroof *Against the Whoor of Babylon*: Westminster Scollers dined at the Colledge. Pd Caillou 2s. for 13th *Bibliotheque*. Met Mr Pepys at Walfords Auction. Sr Pat. Ward[3] in Chanell Row. Restored Martin gloves. 7s. Hain's transaction.

November

[*1*] *November 1689*. Tea box. not out til Jon. o. R[ec]d letter and bill 6 ℔ rent from R. Giles. At Jon. o.

Sat. 2. Wth Lod tea. To Yarwells 2 6-foot glasses 40s. At Walfords auction: viewd miscell fol[ios]. At Jon. Rd the Bill of 6 ℔ from Capn Paggin. Cater agr[eed] for 3 ℔. to alter Stable. Charlemont in Ireland sayd to be taken by storm: Scots Parlt. petition and addresse. 2 Swearers at 2 in the morn.

[1] Th. Gale, Dean of York, author of 'Opuscula mythologica', 1671; see Sept. 12, 1689.

[2] 1573.

[3] Sir Patient Ward's house, on S. side of Laurence Pountney Hill, erected on part of Sir John Pulteney's property.

Sun. [3]. DH. Aubery, Spy, R. Young. Jon. shut: m[ade] Lec[ture].

Mun. 4. HH tea. n o till Jon. Gazet and Harlem: Emprs. victory at Widin, 2000 slaine, town taken by storm[1]. K.W. Birthday, shops shut, bells and Bonefires. Lod here tea. Wrote Lec. At Jon. C[apt] Knox cho., Ashb, Gof, Lod, Spen, Cur, Herb, Hain. v t. [up till] 3. Lect.

Tu. 5. Double thanksg. Rain from 3 mane till night. At Jon. Pif, Lod, Gof o. DH. J. Mayor tea. Wrot lecture. At Jon. Capn. Knox. Sent a Letter to R. Giles for Tom in February. Capn. Knox told me the intoxicating leaf and seed like hemp by the Moors calld Ganges, in Portuguese Banga, in Chingales Consa: tis accounted very wholsome, though for a time it takes away the memory and understanding.

Wen. 6. HH tea. With Cater into Stable. Mm. 17d. Sugar 6d. Stocking 10s. At Jon. 2 Harlems. DH. Royal Society met: Hosk, Hill, Hall, Aub, Moul, Harw, Slon, Creed, Haver, Tison, Gale, Pif, Maple, Perry, Bembde. CCXXIII found in Manuscript *Pliny*, all printed 222. for ☾ period[2]. Chat; else. At Jon. o. Hosk, Gale, Pif, Hally o.

Thu. 7. HH and Lod tea. To Yarwell 2 telescop for Lod, he paid 40s. I took of him lamp glasse at 4, n.p.[3] At Childs, and Mills Auction. At Dr Gales: he told me of note in Dalecā. *Pliny*. 223 and

[1] Victory over the Turks on the Danube.

[2] Halley printed in the *Phil. Trans.* for 1691, pp. 533–540, 'Emendationes in Textu vulgato Naturalis Historiae C. Plinii', where he quotes Harduin's edition.

[3] Not paid.

225. At Jon. o. DH. Read Lecture in Hall: boys and Paget here. Ned from Cap. Knox. Konsa leafe and seed. At Millington Auction o. At Jon. Mr Meverell about Mr Ent boxes.

Fry. 8. Snow all day much, but thawing. Restord Pif his Books of travell. Tea with Mrs. More and much discourse: Viewd Roome: Tea sample. At Jon. o. DH. Sl[eep] pp. bought at Millington Auction 2 books pd for High Dutch *Vitruvius* 2 sh, for Low Duch *Linscoten* 26d. At Jon. Cap. Knox 3d. Perfected Theory of gravitation. D.G. Mm. spake to Mr Weeks for Cacao. To Kettle for Mr Ents boxes. Man read of ☾ to children.

Sat. 9. HH tea. Mm. Candells 14d, Br. 8, M. 20d. Temple[1] Horns bills. At Mosiers, Froud there: pop. piece. Cutt scrips etc. At Jon. o. Pif. DH. Sl[eep] pp. made Lecture At Jon. o. Sat up till 4: bitter cold.

Sun. 10. DH. John Cox and Gof here tea, also N. Young. Mm D. 1 23 cand. 2 gr.

Mun. 11. Lecture. Sent Kettle to Ent. At Jon. o. Gazet. DH. Viewd books at Bear Aucton. At Jon. Lod, Gof, Chiswell, Marlow[1], Knox 4d, Spen, Cur.

Tues. 12. HH tea. Beer 10. To W. calld at Caillou o. Sr Ch. Wr. at Hampton Court. Stayd wth Mr Boy 1 hour. Calld on Dr Smith, Dr Hide gone. At Jon. o. Lod here. *Malay dialogues*:

[1] The names 'Temple' and 'Marlow' occurring here on successive days recall the names on the ground plan printed on p. 65.

Linscotens Voyages. DH. Sl[eep] pp. At Jon. Cap. Knox: from the Parlt house, anger at E. India Company. Mr Ent to enquire for me at Mans o. A common Councell. Marlow abated Kn.

Wed. 13. Mm. br. 2.6d. Kettle here from Mr Ent. Mr Meverell here, also J. Mayor: tea and Mr Gof. DH. To Jon. o. To the Bear Auction wth Lod, viewd folios. Royal Society met: few, little don, Havers read Bones: Hosk, Southwell, Pif, Mul, Slone, Lod, Hough, Hall, Mapletoft, Perry, Herbert. Wiks told me of Cacao at 10℔ per C. At Bear again o. At Jon. o. Silver wire drawer. NB. Colwall tea 1℔ 10s.

Th. 14. Carryd Colwall tea, he refus'd it. HH tea. Kettle here. DH. At Jon. 3 Dutch posts: little new. Read a long lecture, Paget and 40 childr. and 4 others. At Bear Auction o. At Childs Coffe, Hally. At Jon. o. Paper against More, North, Rich etc. Calld at Smith's. Linger alterd Vaughans house. Raine. Ink at Hill's, 1d. Spak wth Southby of Stillingfleet.

Fry. 15. HH tea. In MF o. At Walford Auction viewd Books *Abraxas*. At Jon. 9 Iris[h], 3 French posts o. DH. With Gof and Weeks (tea) to see cacao at D'Andrada's. Sent back Pifs tea. Bought at Walfords auction, *Simplicius* in Greek at 18d, Plotinus *Græc. Lat.* at 18½s. At Jon. Wild and the usuall company o. News ill from Ireland. M. out from 3 to 5. Promisd Dr Pragesti 3 *Measures*.

Sat. 16. Mm. br. 2.4d. At Jon. o. Ill news from Ireland. DH. Mar. broke fine dish. Throug MF

to Auction, pd Mr Hook 20sh. for *Plotinus* and *Simplicius*: 2 Astons there: viewd quartos and 8os. At Jon. o. At home. At Jon. o. Wrote Lecture, up til 3.

Su. 17. DH. Gof and Lod Tea. Very cold. Bells.

M: [*18*] Gof here tea; at his Sons for Cacao. Wa[l]kd to Hogsden. At Jon. o. DH. At Auction and Childs. Pd 2½s. for Colomesij *Gallia Orientalis*[1]. At Jon. Cap. Knox, Mr Ent, Edwards. Bonefires and bells. 2 doctors. Isle Wight won.

Tu. 19. 2 beggars. C. Knox Journall. At Jon. o. DH. Sl[eep] pp. Dream scalded leg. At Auction: Pomeri *Indicus Vniversalis* 10d,[2] Snellius *de Nummis* 11d.[3] At Jon. o. Gof, Lod, Cur, Mev, Spen.

Weds. 20. Gof tea: to Weeks to Andrado. Cacao 15℔ per C. HH tea. Dr Dan Cox here at HH. Mm. 20d, rebukd her. At Bear returnd *Paradise*. Dr Gale out. At Jon. o. DH. Royal Society met: minutes read: Hann. read. At Auction: *Diogenes Laertius* 2.9d. At Jon. o. Bread n. p., 3lb candles 14. Tuesday. Shift.

Th. 21. Attended lecture only 1 fat man, coat and stick at 9¾, sat in outward hall. At Castleton recd G. ⊙ for last quarter. Wrote of Variation. At Jonathans o. Pif, Gof. DH. Read a lecture 3 quarters of an howre [to] 40 childr, 6 others, Pagit

[1] Paul Colomiès, 1638–92, librarian to Archbp. of Canterbury. His books were sold on Jan. 18, 1692.
[2] ?Pomer, 'Memoriale biblicum', 1624.
[3] W. Snellius, 'De re Nummaria,' 1613.

Mordan. 2 about Cranes ground in Buttolf Lane. To Auction, brough home Paganinus Gaudentius *de progressu Philosophiæ apud Romanos*[1] at 6s, bought nought els. At Dr Gales borrowed Johannes Opsopeus *de Sybillinis oraculis*.[2] At Jon. o.

Fry. 22. Fellows about Cranes ground in Buttolf Lane. Subpena. Mist Frazer.[3] At Batemans saw Bruno's *Dialog*.[4] At Jon. Harlems o. DH. Man read 7 or 8 auditors, boys. Walk in MF. At Auction sold physick books o. At Jon. o. Scotman proposall about musquet Engine. Mr Adrian, Ashb, Lod, Gof, Mart, Mev, Spen, Cur, Paul. Read Opsopœus *de Sybillis*. Mr Pargiters man left with me 3℔ crapt money for altering my stable. Cater out.

Sat. 23. HH tea. with Pif to Fleet Ditch; pd Yarwell 4sh. for crystall Lampglasse which I took the 7th; pd Mr Hook at auction 13sh 1d, for *Gaudentius* 6, for *Colomesius* 2½, for *Laertius* 2.9, for Pomeri *Index* 10, Snellius *de Nummis* 11. At Tompions: Frasers: Childs: Gales o. At Jon. o. DH. On subpœna Guildhall from 3 to 9: noe triall. Mm. 2.1. Mr Weeks told me of his mad son. Hawes at Bruins. At Jon. Gof, Spen, Cur o.

Su. 24. DH. Mr Gof here. M. rose at 12 to wash. NB. at HH in Gallery. query? query? etc.

Mu. 25. Bread 16d. Fraser abroad. Caillou o. Met J. Oliuer at Mans. S. Moreland Almanac Coll.

[1] 1643. [2] Opsopeus, 'Oracula magica', edit 1689.
[3] Frazer. See p. 174, note.
[4] L. Brunus, 'Dialogus de Moribus'.

Dind wth Sr Ch. Wren and his daughter. At Dr Busby Mrs Redman dind there. Conuocation[1] speech by Jane Aldridge.[2] Ld London. Irish News not known at D. Pells books.[3] J.G.s complaint Coach[h]ire 2sh. At Bear Auction: pd 1s for Clavius *de horologiis*:[4] Mathematics all sold. At Jonath. Cranes creditor 5sh. Brown in Sherburn Lane had sought me. Knox with Meverill and Spence, [spake] of Nova Zembla. Searchd Suruey books.

Tu. 26. Cranes man here, directed him to search for View at Lighfoots. J. Mayor tea. Read *Opsopœus*. DH. At Jon. Cur, Lod, Gof: Votes lost. NB. at Auct. o. a black immitating recorder. Millington Cat. of Auction. Met Pif at Jon. Here read Creed. Tea. Pd Spencer 6d. for Milton. At Jon. Ashby, Gof, Lod, Cur, Spenc, Hains. Cramer here 30 or 40℔ per an. Letter from Tom Crawly. Carryd up bookes.

Wens. 27. HH tea. Hally here his cousin in the parlor. CC. A Councell of Royal Society: Hosk, Hil, Plot, Tison, Slare, Perry. I propounded *Collections*. Hill found tricks: voted against me. At Jeremys, Henshaw *Tartar Grammer*. query? Flamsted bragd of his man, of his murall quadrant 7 foot radius and 140 degrees: shewd his tide table. At Jon. Lod, Gof, Hally. DH. Royal Society met: I mentiond the emanation of Steams from a man: presented some Russia Birch bark: Dr Havers read. At Jon. Hally told of resigning. I

[1] Convocation at Westminster was opened on 21 Nov.
[2] Henry Aldrich, Dean of Christ Church 1689.
[3] Professor J. Pell, the mathematician, died in poverty. A part of his papers were in the keeping of Dr. Busby. *Life and Works*, p. 687.
[4] 1599.

told Hosk of Cramer. Slone proposd some German. At Jon. Hosk, Hill, Hall, Gale, Lod, Pif, Aubry, Sr Godf. Koply. Concluded list etc.

Th. 28. To Sr Ch. Wren, abroad: Frazer out: met Boyles Smith. Gale in Scool. Tompion going out. Weary. At Jon: noe auditory morn, nor pp. Mr Lodwick stayd to hear 1 houre. Candles 31.14d; butr 3d. At Jon. 0; in MF 0. Strings from Pargeters man. Term end.

Fry. 29. From Mr Moor *Herodotus* imperfect in quires. Pif returnd *Siam Voyage.* Saw Mr Hooks *Gnomonices Clavij,* quite another book then myne query? HH tea. Letter from Capn Mould. DH. At Jon. Lod came home with me. With Capn. Mould viewd Ground at Islington. Dr Mapletof, Perry, Lodw and I met to audit Hills accounts: not ready. Weeks at 6: nothing done. At Jon. C. Knox chocol. 3d. 7000 weight of tea.

Sat. [*30*] *S. Andrew Day.* Royal Society Election day: neer 40 met: Sr Jos. Will[iamson] Vice president. Councill for 1690: Ld Penbrook p[residen]t: Ld Carbery, Dr Gale, Mr Henshaw, Hill, Hoskins, Pepys, Waller, with Williamson, Wren. New electd: Colwall, Creed, Evelyn, Havers, Holder, Hook, Lodwick, Mapletoft, Pitfield, Southwell. The gang tryd utmost effort, but faild. DH. Mm. 18d; intolerable insolent. Almanacks. At Jon. Sr J. Williamson, Sr C. Wych, Sr R. Southwell, Sr J. Hoskins, Dr. Gale, Holder, Sr G. Copleston, Hain, Lod, Hally etc. King orderd Parliament to appoint 7 Managers of Irish War. One pr of shoos: Stinton n[ot] p[aid]: these are all I owe him for.

December

Su. December 1. DH. Cramer and Gof here. Tea. Knox Journall.

Mun. 2. Agreed with Cater for Stable. Received Islington plot from Cap. Mould. At Milling auction Scaligeri *Cyclom.* Munsteri *Diction.*[1] DH. Dr Moulin drawing. Captain Mould in Repository. At Jon. 2 Harlems: Uscopia taken by Germans. Received 52sh from Mr Boyle for Royal Society. From Revel for View 5s. At Childs talkd with Hoskins. Bought at Mills Auction Denis *Descriptio de l'Amerique Septentrionall* 2 vol. at 3.9d:[2] took Beugens at Smith, but I will return it back tomorrow. At Jon. Gof, Lod, Ashb, Spen, Cur o.

Tue. 3. J Mayor & HH tea. Wrote lecture. At Jon. 12 Flanders posts, 1 Holl[and]: news of further progresse against the Turks in Servia. DH. Sl[eep] pp. Wrote lecture. at Jon. o. Lod, Gof, Mart, Mev, Spencer: German paper that will print dry.

Wens. 4. HH tea. Mm. 19; br. 16½. Wrought bobbin cloth. At Jon. Lod, Gof, Gooday, Pif, Whitaker. DH. Royal Society met. I read a lecture, explaind Brachman Arithmetick. Wove pattern of Chickee linnen. At Jon. Hosk, Hil, Hall, Coply, Lod. One about 11 in the morn enquird of Mar[tha] for Lect[ure]. NB. Cater has wrought to day and yesterday on my stable. HH told me that M: W markd Lister. cacao at 13℔ per [?cwt].

[1] 'Cyclometrica', 1594: 'Dictionarium trilingue', 1530 or 43.
[2] Nic. Denys, 1672.

Th. 5. M. slighting. Returnd to Smith Beugen[1] *bibliotheca*: borrowd of Frazer his Map and *Relation of Tartary*. Pd 8d porter. HH tea. At Jon. o. Gazet. DH. Received from Wilk by footman baskets of Cacao, gave him 6d. Nuts small, not good, I have not weighed them. At Haberdashers Hall Sr P. Daniel master, Sr J. Laurence, Sr T. Vernon. Visited Mr Waller who returnd yesterday.[2] Lodwick here tea translated Mullers account of Tartary. At Jon. o.

Fry. 6. Askt at Chiswells for Herodotus sheet: obtaind not. At Caillous o. Walkt with Carter to Charing +; deliverd Mr Boyle his papers about flame, returnd. At Jon. o. DH. Walkt in MF o. Translated Backhoffs[3] with Mr Lodwick. at Jon. o.

Sat. 7. HH tea. Mm. 22, br. cand, butter, sope 29: total 4s. 3d. N o. appl. 6d. At Jon. o. DH. Lod tea translated Backhof's voyage. At Jon. o. Councell [of Royal Society summoned for] Munday.

S. 8. With Hally at Dr. Slones saw his Map of the S[outh] Sea. NB. the new Islands under the aequinoctiall etc. DH. Gof here till 7. Of Tartary etc.

Mu. 9. Headake. Lod tea. Councell: Hoskins, Southwell, Havers, Pif, Wall, Lod, Mapletoft. At Jon. o. DH, n o. Jon. Adrian Hill of Canterbury dead. Knox Choco. Glasse stick. Horsnaill Red stone: met Mr Pepys invited me. very cold clear.

[1] Cornelius Beughem, 'Bibliographia', 1689.
[2] Away at Bristol since Oct. 22.
[3] F. J. Backhoff, 'Voyage into China'.

Tues. 10. Shortest Day. DH. at Jon. Gof, Lod, Hosk, Pif, Wall to President. At Auction with Lod paid for Denys of *Canada* 3.9d. he crost his book. At Molls, out of work. At Smith, boy crost out *Beughen*: to look one in quires. Caught a cold; much tea; took 10 candle; translated Voyage of Cathay 1620. Very fair day. Lord Carbery[1] out of Commission. to bed 3+.

Wen. 11. Mm. 18d. At Jon. *Observr*: Gof, Lod, Hall, Pif, Good. DH. A Councell of Royal Society: Sr R. Southwell, Dr Mapletoft, Dr Havers, Mr Pitfield, Mr Lodwick and I, sworn of the Councell of Royal Society. I read my Lecture of the Description of Tartary, shewd Witsen's Map.[2] *Cave* Will[iamso]n, Waller & Wall[s] Weic? At Jon. Mapletoft and Lane, Spen, Cur, Mev, Ash, Lod, Gof. Key [of stable] from Cater. Hosk desird list of Deficients.

Thu. 12. To Caillous books come. Sr Chr. Wren troubld about fall at Hampton Court: J. Scarboro talkd an hour with Dean Holder. Col-l[onel] Barhead. Returnd: took *Beughen* at Smiths in quires at 2s, not paid: he spake of adjusting accounts. Letter from Sinclar.[3] At Jon. o. Pif, Lod, Gof, Cur. DH. Sl[eep] pp. MF o. Wrote lecture of Weather Watch etc. At Jon. o. Read *Opsopeus*.

[1] John Vaughan, 3rd Earl of Carbery.

[2] Nich. Witsen, late Ambassador from Holland, 'Large & Curious Map of the Great Tartary', *Phil. Trans.*, 1691, p. 492.

[3] G. Sinclair, 'Nat. Philosophy improven by New Experiments touching the Mercurial Weather-Glass, the Hygroscope, Eclipsis . . . the Pressure of Fluids, the Diving Bell', Edinb. 1683.

Fry. [*13*]. HH tea. A Frenchman here: ill with cold. At Jon. o. DH. n o. till Jon. 8. 2 Harlems, 2 slips, 1 Paris: little new.

Sat. [*14*]. Br. 16. Mm. 22. Grillet,[1] french watch maker here about Longitude, unintelligible: Spy at Jon. Lod spake with him. Aubery & Cully with Copper ore. DH. Lod here till 7½ At Jon. o. Lod, Gof, Cur, Spen, Mart.

Su. 15. DH. At Jon. o. Cramer and N Young. *Linscoten.* DP.

M. 16. Mr Revell order for View in Thames street 5s: one Richards about View in Fleet Street Fm C[ourt] of Aldermen tomorrow. At Jon. K[ings] letter to Convocation their address: King's answer. Gazet about skirmishes at Newry etc.: 3 Flanders. DH Sl[eep] pp. ill with cold. At Revells. Jonathans Knox & Waller. Candles and salt 16d.

Tuesd. 17. Richard at Guildhall, sham. At Revells, 18 foot and 7 foot deep. At Jon. o. Took hat of Waring at 21½: n[ot] p[aid]: lind hat. DH. n o. at Jon. Harlems o. s[tayed] u[p] till 4. Shift. beer sold w holl: borrowd *Thevenots Voyages*[2] of Hally. Tartar *Grammer* wanting: Read *Confusius.*[3] To hat to be done. Tobacco 1lb HH 18d.

W. 18. One about Sr Francis Childs building in the Strand. HH tea. From Waring a hat box. Mm. and br. 2.3d. At Jon. o. DH. Royal

[1] Probably Rènè Grillet, author of 'Curiositez mathematiques de l'invention du Sr. G.' Paris, 1673.
[2] Perhaps Thévenot, 'Recueil de Voyages', 1687.
[3] Cf. *Phil. Trans.*, vol. 16, pp. 376–8.

Society met: I read a lecture. Sr Jo. Williamson V-Presid[ent]. Grillet made proposall about Longitude. I paid Waring 22sh in full for beveret and lining: his son crost the book. Scolded M. At Jon. o. Lod, Gof, Cur, Mev, Haak: of Pulu candor etc: Described Bangue: borrowed *Linscoten* of Pif. Oliver Hill going to Lysons.

Th. [*19*]. HH tea. John Peacok for his brother. at Jon. o DH., n[ot] o[ut] pp. till Jon. o. John Gee from Dr Busby.

Fry. 20. Br. 8. n o. Haak tea, queried of Tartary *Voyage*. Returnd Dr Gale *Opsopœus*. Mr Waller with me at Smiths saw Sibills books. At Jon. Pif, Wal, Gof, Cur. DH. Grillet apointed Munday next at 2 pp. In MF o. turnd out Lems labourer Shub. Drew China Map. Read Hacluit *Jenkinsons Vo*[*yages*]: to b[ed] at 4 m. 7 cand. 5d.

Sat. 21 St. Thomas Day. Mm. Soap 2s HH tea. Calld at Caillou o. Saw Pelitier *french Dictionary* 3 vol. fol. at 3½H price: I believe tis very good. At Peacok quaker, saw Sr Fra. Childs building: told him that I believed he could not be hindered. D with Dr Busby, viewd fallen vault in Cloyster house and sunk gutters. He desird me to take care to have all made good. Recd. from him 4 G ⊙ and one K. Jac. ⊙: by coach 2 shil: talkd of Chur. At Jon. Pif, spake to him & Wall[er] of Grillet. Met Dr Bernard at Au[ction] about Dutch Eye book. Mayr calld here.

Su. 22. DH. HH tea, sent him *Tully*, he here 1 hour. K and PD discord. At Jon. Brown, Gof, Lawson. to bed 2, eyes very weak. Mm. D.

M. 23. Spake with Mr Ent at Latine Coffe house. Gave to Dr Pragesty 2 more of *The measure of the Earth*[1] for his *Muller*. Restord Mr Frazer[2] his French *Booke of Tartary*; he lent me Tachard's *2nd Voyage to Siam*, and shewd me likewise a booke about printing, set out at Paris '89 in 4to.[3] Hally and Pif here about Grillet. Beer 9½d. At Jon. Revell 4.7d. Report. Dr Shandy, Hally, Grillet, Jed: meeting appointed [for] Fryd. Jan 3 [at] 10 morn. DH sl[eep] pp. Visited Lodwick, his son dyed fryday last. Visited Waller tea, nurse sick of small pox. At Jon. Wild, Vitri.

Tu. 24. Br. 16d, pd Mm. 2s. n o. At Jon. sent by Ned Capn Knox Journall. DH. read Tachard *2 Voyage*. At Jon. o. In MF o. At noon Pif, Gooday.

Wens. 25 Xmas Day. HH tea. DH. orded bookes. At Jon. o. Tachard. Carol sung in Hall.

Th. 26. Dr Mullens tooke his farwell, being to goe for Jamaica tomorrow morn. Transcribd Alphabets out of Thevenot's *Voyage*. At Jon. o. DH. Delivered Gibsons clark my report about Revell & Levet. Rangd some folios. At Jon. French privateer of 26 guns and 6 peterreras taken: Ashb, Spen, Cur, Gof o. Roast 40 cacao [nuts]: to bed 12.

Fry. 27. HH tea. rangd books. At Jon. Gof, Pif, Gooday, Curr o. DH. at Raphael Lodwicks

[1] 'The Measure of the Earth' was translated from the French by Richard Waller and issued in 1688 as an appendix to Pif's 'Natural History' with the imprimatur of John Hoskyns, V.P.R.S.
[2] James Fraser, as licenser of paper, attended auctions.
[3] French edition 1665: translated in 1689.

fun[eral] from Drapers Hall. Ring, glove, riband. Met Hoor Jacobson. Cluver to be great. Vink etc. At Jon. Gof, Spen, Mart o. Singers in Hall [of Gresham College].

Sat. 28. Mm. br. 28d. HH tea. At Jon. o Pif, Gof, Cur. DH. Lod & Gof here tea. At Jon. 3 Harlems o: a french ship taken. Capn Knox, Lod, Gof, Cur, Spen, Mart. DS com Mard to Counts. of 2 cand. to M. I gave 2sh to Hospitall beedles. Mr Page dead, foregate bolted and not opened at 10¼, none came upon 6 knockings.

Su. 29. DH. pl: Bo. M. o. To Jon. at 5.o: Airs, Spen, Lod, Ash, Pif, Marl, Martin, Brown, Cur. a Capn. Constables & Church W[alls?] below cleered.

Mun. 30. HH tea. J. Mayor tea: [spake] of Dwight China, of Philos[opher's] Stone. In MF o. At Jon. o. DH. Cand[les] 2℔, sugar, 6d but[ter] 3d. M. grumbled. Rain pp. till midnight. Markd A and B box book 7—to p. 10s. to bed 11, slept very little.

Tues. 31. Rose at 5, ill for want of sleep. At Mr Frazers restord Tacherd *2nd Voyage of Siam*, borrowd *Histoire de l'Imprimerie et de la Libraire* 4to a Paris 1689, par Jean de la Caille p. 350. At Chr. Cox saw his wife and son. Returnd ill. At Jon. o. DH. Sl[eep] pp. headake. At Jon. Hall, Wall, Lod, Cur, Spen etc. White's coles-man calld.

1690: JANUARYE: D[eo] O[mnipotenta] G[racias]

Wensd. New Years Day. 1. Slept better, rose at 8. HH tea. Mm. br. 28d. N. Young and 2 chil[dren]. At Jon. Pif, Wall, Lod, Cur, o. DH. Dr Gale and Perry, then Hally, Waller, and Pitfield: shewd my Brackman Arithmetick: talkd of place in Pliny. Tea etc. at Jon. I gave 2 shillings. Did very little this day, invited to Mr Page's Funerall. Smith going for Smyrna. New astronomy lodgers.[1]

Th. 2. Stormy raine. Revell cald here. At Jon. o. Mr Vaughan about his court. DH. Slpp. Grillet put off his experiment till Wensday next. Porter for Mr Boyle's globe: not in order. Gave Mr Pitfield notice of Grillet. Read 14 *Bibliothecae,* which I returnd to Mr Lod. Facio omitting my name. Visited Mr Gof ill of cold. East India candy oyly. Perkt & refresht. At Jon. Mr. Jed [of] Red glasse made with antimony, Query how? Hally C. & D. boxes.

Fry. 3. N o. HH tea. Very stormy raines. At Jon. o. DH. Ring, Mr Pages funerall from Merchant Taylors Hall: little. Apothecary. Stormy raines till past 8.

Sat. 4. HH tea. Mm. 25d, Br. 8d n[ot] p[aid], Sope 4d. Visited Dr Colwall: treasurer and Blewcoats there, I proposd my designe of their bringing home Journalls and Observations. He liked it well & promised to doe it, desird me to speak with Paget. At Jon. Harlem. paper about Longitude. DH.

[1] Lodgers, see p. xii.

With Pif to Kettleby,[1] saw Mr Lock's[2] folio. At Childs Hally, Crisp, Hook etc. calld on Hosk about prints: visited Godfrey, not yet well but betterd by tea. Saw *Mytholog*[3] at Smiths: *Homer Life* and *Mythol.* only added. At Jon. Pif, Lod, Spen, Martin o. Book of Printing study. Jed of Purple glasse.

Su. 5. n o. DH. at Jon. Hally.

Mu. 6. Twelf Day. N o. at Jon. Gazet. Met Casleton in Cloyster. DH. In MF o. Candles 14d. Lod, Jed. Lod here interpreted of Ruby flux. At Jon. Knox, Martin, Neil: Lime ashes and common salt melting together make porcellane dishes. Of Ruby enammell equall to weight in gold. Scotch pearles poisonous in cordialls. 12 cand[les]. China map. Purchas. G Box.

Tu. 7. to bed 3. HH tea. J. Mayor. Galls ½ lb o tea. At Jonath o. DH. Sl[eep] pp. *Secret Hist.*[4] Jon. o pimple Hally bl. to bed 3.

W. 8. HH tea. Grillet and French boy, Pif and Wall, all into the Artillery ground to try Longitude. Grillet walkd in a paper box with a canvas coat that coverd his legs and feet, yet a string tramell was tyed to his heels to measure his paces. He made 2 trialls pretty neer, having before markd the walls of the Artillery ground into degrees and minutes by chalkd figures. At Jon. little. Royal

[1] W. Kettilby, at the Bishop's Head in St. Paul's Churchyard.
[2] John Locke, 'Essay concerning Humane Understanding', 1690.
[3] Ph. Ayres, 'Mythologia Ethica', Feb. 1690.
[4] Perhaps 'The Cabinet opened, or the Secret History of the Amours of Madam de Maintenon with the French King', May 1690.

Society sat: Grillet proposd a second triall in Gresham Colledge. I made report. Dr Gale and Society orderd 3th to make a pendul[um] clock & dipp needle for Knox. At Jon. Gale, Middleton, Hally, Perry, Lod etc. and the vsuall company. *Linscoten* Bang. *Pliny* junr. Mm. 21d. Left Lodgings. argued *Homerj vita.*

Th. 9. Sent Ned wth Globe to Mr Boyl. HH tea. Timens Locrus. At Jon. Cap. Paggin his brother very sick: Collet oyle. DH. Sl[eep] pp. Waller Grumble book. Returnd *Secret Histo.* At Jon. Dr Fawstus: Began the 27 lb Cacao.

Fr. 10. Pargeter liked the stable well. HH tea. In MF o. at Jon. o. DH. Sl pp. Hally *Plin.* visit Gof tea. India candy. Pd. Mr. for br. 16d, beer 9½.

Sat. [*11*]. Mm. 2s. bre. 8d. Calld at Haaks, Frazers out: Tompion. Lawr: Dr Barnard not at Child's. Smith noe incunabula typogr. At Jon. Pif, Hall, Jed. DH. Grillet. Blackboy Stat. 10s. HH tea. At Jon. Knox, Chocol, promisd Map of Sumatra: Of ☉. ♃ mines in Sumatra. This night about 1 and 2 of the clock was a most violent Storm or Hurrican which blew down trees, houses, chimnies etc. It blew down part of my parlor chimny, vntiled much of my long garret, broke windows etc. The Barometer was very low vizt horizontall to the right. Vpon the falling of snow between 2 and 3 in the morn the wind ceased: it blew pt North N.W., and N.E. the rest of the night

and all next day cleer calm cold and frosty. News of the losse of Bombay and Fort St G[eorge].

Su. 12. DH. Sl[eep] pp. Jo. Cox brought white Specta[cle] frame. At Jon. heard of much mischeif done by Hurrican. Haak here tea. Sapan Wood in Chingalese: Bolingo Lee.

Mun. 13. HH tea, J. Mayor tea. E. India Stock 90. At Jon. o. 2 Harlems, C. Knox, Pif, Lod, Gof. New dream. DH. head ake. M. about coles. At Jon. C. Knox Sapan Wood a kind of large brier: 80 ships drouen to sea out of the Downes[1]: Coffe bill past, query another. Md. intollerable proud. *Caillet de l'Imprimerie, Hofmanns Lexicon* [*universale* 1677].

Tues: 14. Mist Paget: lookd into the Theater; tarts. Childs. Dr Bernard. Hally *Wasmuth tab.*[2] Saw Henning Witte *Biblioth. Seculj* 17s. 4,[3] of about 5000 persons ages and works. At Faithorns Bow Dr married Mrs Martin. At Jon. Knox, Jed, Gof, Lod, Pif, Gooday: borrow *Mythologist*, read *Homers life*. At Jon. Gof, Lod, Pif, Waller, Ashby, Meverell, Martin, Spencer o. Catalogue of Prints, Maitlands.

Wen. 15. Noe fire. HH tea. Mm. br. 29d. Rainy thaw. Grillet in □. At Jon. Observâtor: Pif's child sick of s[mall] pox. DH. Royal Society met: Dr Gale, Pepys, Hill, Herb., Slone, Aubery. I shewed ruby glasse: nothing [?] but critiques on Pliny. paid Mr Week 65sh. for 27lb of Cacao.

[1] By storm of Saturday night.
[2] Mat. Wasmuth wrote a 'Novum opus Astrochronologicum', 1692.
[3] 'Diarium biographicum', 1688; vol. 2, 1691.

At Jon. Gale, Hill, Waller, Hally, Lod: about the vniversitys etc.: Hevelius Medall.

Th. 16. Rainy day. Missd Paget 2: At Tompions an howre: Calld at Smiths 0. At Jon. Gooday, Pif, Lod, Gof, Cur 0. DH. Sl[eep] pp. Made Etching Varnish. Leather for glasse frame. Letter from J. Gee. Rogue about door. Report of Sr J. Cu[tlers] suddain death. Met Dr Zanches at Tompions. East India ship in Sandwich: 3 Bills past [One imposed a tax of 1s in the pound for one year: the second was for duty on coffee, tea, and chocolate].

Fry. 17. A rainy cold thawing day. HH tea. Varnish bla[ck] marb[le]: Sugar. At Jon. Slare, Lod, Gof, Cur, Gooday 0. DH. Great sicknesse[1] in Ireland. Sl[eep] pp. De Boot *de lapid*:[2] Candles 14d. Sugar 6d. At Jon. Ashby, Lod, Gof, Spen, Cur 0.

Sat. 18. Mm 20d. J. Mayor and HH tea. Catalog of Library from Perry, Hally in Library. M. insuffer. impud[ent]. At Jon. 0. DH. Sl[eep] pp. Man killd in Broad str. Evelyn *Calcogr.*[3] Shift. Sope 4d. Etch marble. Very rainy cold day. At Jon. Waller, Spen, Cur, Gof, Lod. Martin Pearle 37 oa. 17½ gra. worth 40℔ each: in all 1480℔. Diamant ring, 1000℔ Marlow.

Su. 19. DH. Cold thaw rain. Round looking-glasse plate broken by last great wind, 18 inch. DH. Sl[eep] pp. At Jon. Queen of Spain in the

[1] 'Distemper' in army.
[2] A. Boethius de Boodt, 'Gemmarum et lapidum historia', 1609.
[3] 1662.

Downes: many posts: Silver 3 tunn seazed in a ship, many put into Newgate about it: Ashby, Frank, Airs, Spencer, Martin, Broon. St Martins. *Bibl. Norfolc.* 4 first pag. Evelyn *Chalcography.*

Mu. 20. HH tea. M. wash. Mr Ashby hiccary oyle. tea. Module of mill and crank cros. At Jon. Harlems and Amsterdams[1] o. DH. Sl[eep] pp. With Paget at school house, tarts; about Colwalls Catalogue of Sams auction: at Smiths refusd *7s.* for Witte. At Jon. Waller, Ashby, Knox, Neale fudled, Spencer o. Transcribe Catal.: Grillet here. Dr Siddenham dead 3 week since [29 Dec. 1689].

Tues. 21. Cap. Mould here. HH tea. With Sr Pet. Daniell, Mr Chancy and Cap. Mould at the Fleece. DH. At Jon. Grillet, Pif, Lod, Gof, Hally, Jed, Colson. Sl[eep] pp. Transcribe *lib. Norf.* at Jon. Wall, Martin, spake to him about Bevoirs Ground. Rd a box of foyles colourd. Melanch.

Wens. 22. View at Browning Cornwell 10s. Sr J. Hublon of Double bottom Pirat taken[2]. At Jon. o. Pif, etc. DH. Grillets tools not slight(?). Hosk. meeting RS. Hally of Caesar's landing.[3] At Jon. Hosk, Gale, Aubery, Waller, Lod and Hill. Dr Holder not pleasd with Discourse. Sr J. Cutler. At Jon. 2 proposals from Robin: query from whom—from Capn Knox.

[1] Gazette d'Amsterdam v. Hatin, 'les Gazettes de Hollande', 1865.

[2] A double-bottomed ship was invented by Dr. William Petty about 1663. It was said to be able to sail against wind and tide but unfortunately got lost in a tempest in the Irish channel.

[3] Hally tried to prove that Julius Caesar landed on 26 Aug. A.D. 55. *Phil. Trans.* March 1691.

Thu. 23. Hillary term. Noe auditory in the morn or afternoon. With Longmore to Sr J. Hublon, at coffe house in Cheapside. At Caillous borrowd *De la Manœuvre des Vaisseaux.* 8°. A Paris chez Estienne Michallet premier imprimeur du roy. rue S Jaques a l'Image S. Paul. 1689. de l'exprès commandemt de Sa Majes. in 8 sheets and 25 Copper plates. Price in quires 6 shillings. Bespake a book of *Becker.* At Mr Boyles, he promisd to send me one of his new books, publisht by Smith: Knew not Red Antimony glasse: Refusd his picture, promisd me one. Spake with Sr Chr. Wren: account of faileur at Hamton Court. At Jon. o. DH. in MF o. rain at 6. At Jon. o. Waller, Gof, Lod, Mev, Mart, Spen, Knox, Cur: heard of old Hintons death a year since.

Fry. 24. bread 16d. Neile Diamant red earth. Scotsman Scotch yard about his wharf. HH tea. Shewd him Martins foyle, he Mr Boyles picture At Jon. Votes about exceptions from Indemnity:[1] Lod, Jed, Cur etc. DH. in study. Tom home. Transcribe Catalog. Read French *Manœuvre,* he has descanted vpon my horizontall Vanes.

Sat. 25. Mm. 20s. N o till Jon. Votes: Lod, Gof, Gooday. Returnd Martin foyles. Shewd Red Glasse. Paris Gazet. DH. Sl[eep] pp. Transcr. Catalog. HH tea. At Jon. o. Longmore about Birket. Stable quarter due from Mr Casleton.

[1] The Act of Indemnity of May 23, 1690, included the names of Sir Edw. Hales, Philip Burton, and Richard Graham, see Dec. 14, 1688, whose effigies were hanged and burnt on Dec. 19, 1689.

Su. 26. Rain all day and night. DH. Cramer cald at Jon. o, to bed 12.

M. 27. Longmore setting out coppy 2½s. HH tea. Returnd Frazer Tartary Map and book of *Typo.* To Caillou. Returnd *Manœuvre.* DH. 12: At Jon. o. Mr Hooke here tea. Par[liamen]t prorogud. In MF o. Returnd *Linscoten* and *Mythologist* to Mr Waller and P. At Jon. wth Mr Pitfeild. Bread 9d n.p.

Tu. 28. One from Ironmongers hall. DH. At Jon. o. Rain. Spake with Oliver at the fethers. Mr Waller here. Candles 14d, pd. At Jon. o.

Wen. [*29*]. HH tea. J. Mayor. M. mark[et] 9d, beer 9½. DH. HH tobacco 18d. At Jonathans J. Gee. At Ironmonger Hall view o. Grillet walk in quadrangle feild. Royal Society met; Havers read. At Coffee hou[se], Lod displeasd.

Th. 30. Fast. HH tea. Round float. DH. At Jons. Gazet Ceram of Empr. Crown. perf. Soc. Catal. at Jon. Gof, Lod, Ash, Mev, Spenc o.

Fryd. 31. HH tea. Returnd Host. M. [w]rangle. At Haberdashers Hall Sr P. Daniell, Sr T. Vernon, Chorly etc. Deliuerd White at Wheatsheaf and Crown in Pater Noster Row Hattons Bill. At Smiths o. At Jonathans o. DH. To Haberdasher at Cocks against Mercers chappell: Sat wth Gof, met Whitchurch there. At Sams Auction. At Jon. Waller, Lod, Gof, Mev, Cur, Spen: news of some Irish Peers arrivall to treat. At Child's Strong etc. o.

February

Sat. February 1. Mm. 25d. Br. 18d. pd. HH tea. Letter from Vaughan for Measurer: at Sams Auction met Hooke. DH. At Jon. o. View in Gracechurch Street Hatton. Gof and Waller and Moor. With HH to sayle module in feilds. Refreshed at Jon. o. Knox, Gof, Lod, Spen, Waller *Analysis Plantarum.* Sope and starch 5d.

Sund. 2. Candlemas day. DH. Nic. Yong and children. At Jon. o. Ash, Airs, Spen, Lod, Gof, Broon. Woman killd servant. HH tea. 2 book *Scheffer de Varietate Nucium Scorbut. cur.*[1] M. wash. Very bright clear day.

Mu. 3. HH tea. Slupy mend window 10d. Saw Curr[?] at Auction. At Caillous o: heard Mr Henshaw had lost sight. With Sr C. Wren at Mans. Camphouse[2]: of Sayling Rule: of Growing Earth. D[ine] with Dr Busby: Dr Hickman there; sayd Newton the veryest knaue in all the Ho: To Auction with Vsher. *Montanus* fol. sould for 20s, Met Waller. Shirl.[3] preach St Duns. At Jon. paper of Scots clergy: Hain, Hally, Waller, all running to discord: one opened gate at 2 in the morn.

Tues. 4. N o. till Jon. Catal. Stockins. rix Lumber. At Jon. Hains, Hally pretended to the glasse sights of Sea quadrant, though it was printed in *Hist. of Royal Society* before he went to

[1] Author not identifiable, but a 'Doctor of Physick' addressed to Dr. Croon 'Some Observations made upon the Virginian Nuts shewing their admirable Virtue against the Scurvy', London 1682.

[2] A 'caravan'. Wren completed an itinerant house for King William III, for him to lie in, in the field in Ireland. It was to be taken to pieces and carried on two waggons, and to be quickly fixed up. Luttrell, ii, p. 12.

[3] William Sherlock, dean of St. Paul's and Master of the Temple.

school. Cap. Knox of Sea Instrumt without Horizon. DH. through MF to Auction, bought o. Wrote Catalog: not well. . . . Of Batavia and Cape Good Hope. Dutch kind to Knox. tea box.

Wens. 5. Rose at 12. Slept ill. Mm. 2s, br. n.p. At Jon. Ticket for Mr Paggins funerall. Observator. DH. Mr Molt promisd to shew Exp[erimen]t of kindling Liquors, vizt high rectifyed Spirit of Niter, and ₀°₀ Tereb. impregnated with flores ♀, or almost any other Oyle that will sink, as ₀°₀ of Cloves etc. Mr Gof told me of Mr Morris and Farren receiuing 12℔ per an. for my Celler. I spoke to Wells. Auberys brother here. Royal Society met: Sr J. Williamson, Mr Pepys, Hosk, Hil, Longton, Lod, Slone, Birch, Mills, Waller, Pif, Haak, King, Harwood. I calld at Sun tavern but stayd not: at Jon. o.

Th. 6. To Mr Pepys, viewd his modules; discoursed of triremes, Dr —— by. With Sr Christ. Wren at Mans: theory of Niter air flame. At Jon. Jed. and Linger about Vaughan. DH. Noe lecture, noe auditory. Mayd swept hall. Jed calld but went off. At Wallers and Auction o: tooke *Manœuvre* at Caillous for Mr Pitfeild, he to pay him 6sh. for it. Drew Almshouse ticket for Iremonger.

Fr. 7. Coachman at opp: door. HH tea. At Haberdashers hall 4 Wardens and Cap. Mould: I shewd my designe, desird Hogsden ground;[1]

[1] Hoxton Fields were a favourite holiday resort. The Haberdashers' Almshouses and Aske's Charity and Grammar School of the company still exist there.

sought Sr P. Daniel at Jeremys. At Jon. a Proclamation for Comissioners of Pole Act, o else: Gof, Lod, Gooday, Grillet. DH. Calld at Heatlys. At W. Paggens funerall at Clothworkers hall: Joy, Weeks, Brown, Ald. Booth, Jefferys etc: a ring. At Sams Auction Waller bought *Salmatius on Plinj* for me. At Jon. o. Man attended not auditory.

Sat. 8. HH tea. Mm. 27d, Br. pd 18, Candle 14 In MF Kedwellys *Millitary Maxims* 3d. At Jon. Wallr, Gof, Lod o. DH. Sl[eep] pp. At Sams Auction, met Waller at Childs: took of Smith *Hugen de Lumine* etc. at 3s,[1] also a book of Astronomy to returne. Waller bought Dr Herm *hortus Lugduno Batav*:[2] and pd 8½s. At Jon. o. I paid Cater. for altering my stable 30sh and promisd to pay him 30 more when he had finisht it. Cheated in my meat NB.

Su. 9. DH. HH here. Of Pyrat. At Jon. told Gof o. Lod, Spenc, Ash, Air, Broon: One about Butlers sham of Kirk.

Mu. 10. HH tea. He, Mr Waller and I to brick pond, sayle; wind too high. At Jon. o. DH. With Waller to Auction bought o. At Jon. Pif, Lingar told of Esquire Vaughan robbd of 500 ℔. Read *Hugens*. Collated *Salmasius* perfect. ?Wall surly.

Tues. 11. HH tea. Mr Longmore to the Court of Aldermen: Spake with Lane, Man, Bird, Smith,

[1] C. Huygens, 'Traité de la lumière . . . et particulèrement dans l'étrange Refraction du cristal d'Islande', Leiden 1690.
[2] Hermann, 'Florae Lugd. Bat. flores', 1690.

Dalton a suppena for Saturday. Sr R. Geffery, Sr J. Laurence, Lord Mayor. Proclamation on husting to outlaw Irish etc: Writ for Parliament men next W[ednesday] the 19 instant. To Jon. there I pd Mr Waller 20½sh for *Salmatius on Solinus*. DH, n o till 8. To Jon. Knox, Gof, Lod, Spencer, Ashby, Mever, Cur o.

W. 12. Mm. 18d. HH tea. At Jon Hain, Hally, Lod, Gof came and demanded Hangings. here ten. Royal Society met: Hoskins, Pepys, Evelyn, Hill, Lodwik, Slone, Houton, Perry, Slare. Mo[u]lt shewd his experiment with Spirit of Niter made by ∘°∘ ⊕ as Glaubers Sal mirabilis. It raysd a flame pourd on Spirit of a mans skull, ∘°∘ of Carways, ∘°∘ of Clou[es], Balsam of Sulphur; not with ∘°∘ Terebinth, but with ∘°∘ Guajaci and other sinking oyles: his solution not philosophicall. Slare would be thought a partner. At Jonath[ans] Hoskins, Lodwik, Houghton, Hally, Waller: Longmore 5s for attendance at Court of Aldermen: I quoted the place in *Solinus* of the Sacrifice taking fire, page 20. Pepys inquird of blew glasse. Term end.

Th. 13. At Jonath. With Chancey to meet Sr P. Daniell: he came not. At home HH & J. Mayor tea. At Co[urt] of Ald[ermen] for Longmore, his cause determined. At Jon. Waller, Gof. Gof left here E. India candy clammy & brown. DH raw. With Waller to Tompion & Swales Auction o. Returnd Smith pamphlet of Astronomy. At Jon. Ashby of Mummy. Some rain at night, calm. King and Queen proclamation.

Fry. 14. Valentines Day. HH tea. With HH to Mr Ashbys, saw a fair mummy 5⅔ high, head & face bare & entire, many hieroglyphyck, much the same as in Repository: brought home a billet of Carolina Laurell. At Jon. o. Gee and Chapman about Dr Busbys Almshouses. Jed, Lod, Gof, Haak, DH. in MF o. At Jon. o Mev, Waller, Lodwik, Gof. Letter from Aub[ry]. Subpoena from Longmore for tomorrow morn. Qu? MF sham.

Sat. 15. Attended Longmore subpoena at Guildhall. At Sr Edm. King: Mr Boyles picture, Haak out. Mm. 20d. At Jon. Gof o. DH. Attended till 6 at Guildhall: borrowed *Manoeuvre* of Pif at Normansells. At Jon. Capn Knox, one scapd from Ceylon old kings son reigns. Sti[t]cht *Hugens* book.

Su. 16. DH. Waller & Cramer with Hugens & Ango *de lumine.* At Jon. talkd with Spencer.

Mu. 17. HH tea. Sea quadrant. At Caillou o. At Mr Boyle: he gave me his book of Unheeded Motion[1] &c for Society. At Jon. o. Gof, Lodwik, Hally, Kronling. M. Br. 18d pd. DH. J. Mayor tea. Sl[eep] pp weary, wrote Lecture on Huygens book of Light. At Jon. o Lod, Gof, Hall, Spencer, Curr[er].

Tu. 18. HH tea. Saw his printing. Walkd with Gof. At Jon. o. Waller. DH. M. mutton 12d. Haak tea. Wrote lecture at Jon. o. Gof, Lod, Cur, Spencer o.

[1] Boyle, 'An Essay of the great Effects of Even Languid and Unheeded Motion'. S. Smith, 1690.

Wen. 19. HH tea. Mm. soap 21d, beer 9½d. To Jerimys Hoskins, Henshaw, Pepys, Hally o: at Jon. o. DH. Read Lecture on Huygens of Light: present Hoskins, Hill, Lodwik, Hall, Pif, Waller, Southwell and Gale: Havers read of Porcoon.[1] At Jon. Hoskins, Gale, Lodwik, Waller, Pif, Hally o. Roast Cacao lb 1. Election of Parliament men at Guildhall a pole.

Th. 20. HH tea. Sr Ch. Wren out. At Dr Busby saw Pelling,[2] Knipe:[3] dined there, viewd under Museum, also stair. He left to me the full power to agree for Almes houses at Wellin:[4] wall 170 foot in Tuttle Feilds,[5] altering his prebends house. Mrs Redmane & Bullock: for coach 2s. At Jon. at 8. Waller, Lodwik, Gof, Mev, Spencer, Knox. Tea box.

Fryd [*21*]. Cand[les] 8½; bre 9d, pd. HH tea. Carpenter about Pudding Lane. At Jon. o DH. Sl[eep] pp. In MF o. very cold. Calld at Langmores. At Jon. o. Home with Waller, wrote Lecture on Huygens.

Sat. [*22*]. Mm. 2.3. Wrote Lecture. At Jon. news of battell at Newry: Gof, Lodwik, Currer, Hally. DH. Sl pp. Lodwik here tea. At Jon. o.

Su. 23. Walkd with Mr Waller: cold and clear. DH. Read. At Jon. Hout & Hally o. N. Young.

[1] Porcoon. Query meaning?
[2] Edw. Pelling, D.D., prebend of Westminster.
[3] Tho. Knipe, second master at Westminster.
[4] Busby built a church at Willen of which Hooke was the architect.
[5] Tuttle Fields were used as a public playing ground: Tothill St. lay between Petty France (now York St.) and Old Gate House. Hatton, 1708.

Mun. 24. St. Mathias. HH tea. Tryd trickery ∘°∘. sea quadrant. At Jon. Harlem. DH. In MF o. At Olivers apoint Munday morn. Haak. about Cluvers books. At Jon. Hally Knox o. Letter from R. Giles with bill for 6 ℔ 8s 8d on Capn. P. Paggin.

Tue. 25. HH tea. br. 9d pd. Recd. the 6. 8s. 8d of C. Paggen on the Bill. At Jon. Irish news. Recd. of Longmore 10s: paid Marth[a] wages 20s for Chrismas quarter. Mr Waller here about *de la Hire*: tea: Plinij of Paper he undertook the 19th Book to translate. At Jon. Ashby, Gof, Lodwik, Spencer, Mev, Mar, Jed o. A proclamation for Fasts.[1] Huygens book.

Wens. 26. HH tea. Sr T. Greshams picture J. Mayor tea. Mm. 2s. DH. at Jon. o. Rain. Royal Society met: Sr J. Hoskins, Sr R. Southwell, Herbert, Hill, Slone, Waller, Facio, Lodwik, Mapletoft, Perry, Hally, HH[unt]. I read on Huygens Gravity. Facio read his own hyp[othesis] of Gravity: not sufficient. At Jon. Hosk, Hil, Fac, Wall, Hall. o. about French fleet.

Th. 27. Not well. At J. Oliver at Pauls J. Scarboro. At Smiths saw *Term Catalogue*. At Jon. Pif, o. Gazet, Irish defeat[2]. DH. Sl[eep] pp. *Ter[m] catalog*. At Jon. o.

Fry. 28. With J. Oliver at Paules about Dr Busbys bills. At Atkins Coffehouse met Stillingfleet. Yarwell. talkd with Pardo. DH. At Jon. o.

[1] Fasts ordered for March 12 and for the third Wednesday in every month.

[2] Near Cavan.

Walkd in MF with Lodwik o, calld at Waller. Mrs More. Melanch[oly].

March 1689–90.

Sat. 1. Mm. 22d, br. 6d Di DH. at Jon. o. Lodwik, Gof, Jed, Cur, Melanc[holy]: *Orang.*[1] At Jon. o With HH tea. Tea box. Wrote Lecture. 3 prs shooes, these make 2 pr np. [not paid].

Su. 2. DH. headake. Waller here. N. Young her. Gave her back the crystal. . . . J. Mayor . . . faild. Spak for a bible. At Jon. Waller of new Leiftenancy[2] & Irish fight.

Mu. 3. Cut coat lining. M. made sleeves HH tea. At Jon. o. DH. At Whites at Henshaws Steven and Lumbly coles. With Pif and Wall at Jon., wrot Lecture.

Tu. 4. HH tea. To Jon. o. Jed, Hally etc. DH. With H Hunt to Whites: took 1 load of coles at 17½s. At Jon. o. Ashby, Knox, Lod, Gof, Spencer, Martin, Haak heard from Cluver. Gof shewd ground plat. N. Young.

Ash Wens. 5. HH tea. Waller: Leiutenancy. Inde NB. Pandulum sheers. At Jon. o. DH. Councill Royal Society. Read Lecture of bellying Sail: present Hoskins, Southwell, Hill, Slone, Mapletoft, Gale, Plot, Pitfield, Waller, Lodwik, Hally, Creed, Havers, Harwood etc. At Jon. Hosk., Hill, Hall, Lod, Pif, Wall, Gale, Facio (Perpet[ual] Motion man).[3]

[1] The 'Orange Gazette' was started on Dec. 31, 1688.
[2] For London. The Commission acted on March 28.
[3] Nicholas Facio, b. Basel 1664, came to England in 1687, and was the first to apply jewels to the pivot holes of watches.

Th. 6. HH tea. With Waller to Caillou & Boyle: met the Lord North, Sr E. King, Dr Smith, Hutchinson. Sr Chr. Wren at Windsor. Jon. o. DH. At Richardson view 10s. Old Dun.[1] Sutton books. At Jon. Wils, Gof, Lod, Knox, Meverell.

Fry. 7. Cluvers landlady twattle: in MF 2 dutch books 10d. At Jon. Haak o. DH Sl[eep] pp. M. scold. Candles 13½d.

Sat. 8. Mm. sope 22d, br. and flower 23d. HH tea. At Jon. Waller. DH. Sl[eep] pp. HH tea. Hugens *Cart*[*esius*].

Su. 9. DH. N Young here. At Jon. Airs[kin], Ashby, Gof, Spencer, Franklin. Mr Wessell dead. Cartesius. All this last week very cold, with some frost, snow haile etc, wind for the most part about the north.

[*Diary missing from March 10, 1690, to December 5, 1692*]

The Missing Months

During the period of the months for which the Diary is wanting several important events happened about which we should have liked the diarist's testimony. For instance, he received the honour of an M.D. degree from Archbishop Tillotson in 1691. On December 13 his great and early friend the Hon. Robert Boyle died; of him a Cambridge admirer

[1] Possibly Dunton, the book auctioneer.

wrote: 'Alas! who can refrain from tears, what learned man can but lament at the sad newse that came the other night, viz. the death of the famous and honourable Mr. Boyl, a man born to learning, whose death can be never enough lamented and mourned for. England has lost her wisest man, wisdom her wisest son, and all Europe the man whose writings they most desired, who well deserved the character that the ingenious Redi gives him, who calls him, "*Semper viridicus, et quavis sublimi laude dignus!*" . . . He was a mighty promoter of all pious and good works. . . . He was a mighty chemist.' Such was a contemporary eulogy by Abraham de la Prynne, of St. John's College.

We know that Hooke continued to attend book-auctions, as is shown by an entry in a recent catalogue issued by Messrs H. Sotheran. The inscription 'Liber Rob: Hooke ex auct: Ballard 15 Oct 1691. 4*d*' is written in a copy of James Gregory's 'Optica Promota', 1663. This volume is also inscribed 'Ex Biblioth. Hookiana 2*s*. 2*d*.' and 'bought Dec. 30th 1778 of T. Philips, price 5 shillings', presumably by David S[teuart Erskine, 11th] Earl of Buchan, who on June 12, 1794, presented it to Professor John Millar, of Glasgow. It is now priced at £15.

And yet another volume, Boyle's 'Some Considerations etc.' 1663, has recently been brought to my notice by Mr. V. A. Eyles. It is inscribed 'Sum ex libris R: Hooke pret 2s. 8.' and 'Sum ex libris Thomae Burch, ex dono R: Hooke, Thos Birche'.

Books from Hooke's library are by no means common.

December. 1692.

Decemb. 6. 1692 Tuesday. N o: a box of limestones and sand etc from Sr R. Southwell and a letter from his son. DH. at Jon. Gof, Lod o. Staples I desird to desist: carpenter I directed to make 2 doors out of roof into the middle gutter.[1] Spak with Bayly at the Georg and Vultur: took sheets of *Siam* of Pif: deliverd 2 to Horn[2] for correction. At Jon. rain: Lod, Spen, Mart (about ground rent), Ashby (cured himself after 2 days suffuring by eating a pint of milk in which half a sheet of paper had been boyled $\frac{1}{3}$ away and then straind. NB. Aristarch Samius[3] ☋ diam. 2°), Hains, Hally. Hoskins shewd Flock-work printed in flowers by Muscovy powderd slode past under hot printing roll. Coll[onel] Fitzgerald, Irish ditto.

Wen. 7. Rainy morn, n o. A councell of Royal Society Hosk and Hill; shuffled of Plot and Mr Waller, and made Hally to be Secretary. None els sayd anything, soe councell brake up, nothing done: noe *Transactions*, noe correspondence. At Jon. o DH. at Pifs o. Royal Society met: President[4] and his son, Hill, Havers, Slone, Harwood, Vincent, Perry, Houton, Coply, Hoskins, Lodw: I read Mr

[1] Query at Hoxton.
[2] T. Horne, printer, at the South Entrance of the R. Exchange, Cornhill.
[3] Reviewed in *Phil. Trans.* 1692–3, p. 440.
[4] Sir R. Southwell, F.R.S. 1663. President.

Crowliks Description of New York with animadversions: Hally spake of a way of his to solve the Moons motions, being an improvement of Horrox. At Jon. Hosk, Hally, Lod, Houton, Coply, Beaumont, Vincent o: a letter from R Giles. Mm. 2s.

Th. 8. Stormy. HH tea. I recd 25℔[1] of Chamber for Michælmas Salary: gave the officers 5s. HH and I saw Hoskins Perspective, he sick. DH. at Jon. Pif, Lod, Gof, Hain, Hally: n o pp. I wrote letter to James Wey to pay my rent to Cap. Ch. Newland of Cows, and sent it by Post. Spake with Cap. Paggin at Vergines Coffy [house]: mention lect[ure] of Cant. to Williams and promised my instrument to make Altitudes of ☉ or ✳ in zenith. At Jon. Waller of Royal Society, of Earthquake[2] moving East and West visable by row of trees at Northhall. Wild of New England Earthquake: of Parabolick ⊖. Hains. 2 books of Hevelius. Horn; stormy.

Fry. 9. Sr R. Southwell and his son explicating the key, the wharfing, the mole, and the sluces[3]: query of mortar turns coled not etc. till 12; then to Mr Waller. DH. Jon. Gof, Lod, Pif, Hally, Beaumont[4], who read the first boke of his answer to Burnet's Theory and his conclusion enthusiastic At Jonath. Jones carver o. Williams mentioned to get a patent for perpendicular Obs[erv] Instrument. Clear.

[1] Hooke's salary as Cutlerian Lecturer.
[2] This earthquake may have started Hooke on his celebrated inquiry, see March 26, 1692–3, and 'Posthumous Works', pp. 416–434.
[3] Dock and water-mill inquiries for Southwell continue until Feb. 18. Models were made by Hunt (Dec. 17).
[4] Beaumont, see p. 206, note.

Sat. 10. n o DH. Mm. 15; br. 12; ch. 10. HH tea. Mod[ule] for sluse. At Jon. Gof, Lod, Colson. tract of Earthquakes 6d. At Jon. Hamd, Ashby, Lod: peruse *Brennius* and Harly *Prodromus* Sent Mr Lods *Works of the Learned* to Mr Pitfeild. The Shortest Day, Hally and Colson observd the occultation of the Pleiades by the Moon at 5 p.p.

Su. 11. n o DH. M. St Peters. At Jon. Ashb, Spen, Lod, Gof, Mart o. Burnet *Archaeologia.* fair.

M. 12. added veloc. recipr. distance. Jones cald. Spak with Maj. Mould, nothing resolvd but Committee to meet Wens 3; calld at S. Smith o; at Callious pd 6d for Rudbecks *plantarum notitia.* At Behagells o. With Dr Birch[1] at Johns coffe house. Dr Hol. about new lights. strange tower. Discoursed Sr Chr. Wren. I deliver smiths, plumbers and glaziers bills to Mr Needham. D[inner] with Dr Busby Bulloc, Matier and Robinson: orderd plumber to mend Dr Busb[ys] spou[t]: with J War to Boyles house Pall Mall. Stelyard old War and Sinclar. Conditions of selling house for Martin. Rainy: home tea. Jon. Hamden, Ashby, Spen, Martin informd of house. Read *Rudbeck.* Jones o.

Tu. 13. n o HH module of sluse. Carols DH at Jon. Gof and Pif, Mr Creed: I read Pif praeface.[2] Faltrop for Westminster Thursday m[orn]. Lake about Bills, sayd I orderd him to pay the smith falsly: at h[ome] epitomised Burnet: at Jon 8

[1] Dr. Peter Birch, D.D., chaplain to House of Commons, prebend of Westminster.
[2] Book on Siam.

g[azets], 4 posts: order for view of Whistler houses. Williamson off for 30000. Currer, Hamd, Ashby, Hally, Martin, Wats note: spake with Wats of Haberdashers.

Wen 14. Sr R. Southwell till 12: tea: much pleased with water-mill crank and moduls. DH. at Jon. Gof and Lod: I read my account of Burnet's *Archaeologia* to chap. 9: well accepted: corrected Hallys mistake of lat [*blot*]?. Tufnell left his bill for Westminster and abbey: Pif left his praeface chees: at Jon. Hosk, Coply, Hally, Houton, Beaumont, Lod chat: Hallys way to lash guns[1] absurd. Mm. 1. cand[les] 11. H Hayward about Lambeth. Rainy all day.

Th. 15. Plumber calld, no Faltrop. Letter from Sr R. Southwell. DH. at Jon. Gof, Lod, Pif, Wall, Blackwell o: borrowd *Ray* of Smith: took *de transactionibus s . . . arii* n.p.: calld at Cap. Moulds. Bills to about 7000. Sheets from Horn. Tufnell calld.

Fry. 16. Whistlers view ½ G ⊙. Mellow che DH. at Jon. Gof, Lod. Dep. Wood married da[ughter]. n o pp. Stranger to see *Tabulae Rudolphinae.* N.B. Hally's Bill. *History Royal Society.* Diving: very rainy night.

Satur. 17. Sr R. Southwell. HH module of the double gate about Mill and ? L▫Q. I gave him a paper to compute pressure of water. I visited Waller & Piff: met Stephens, he promised *History*

[1] 'A method of Enabling a Ship to carry its Guns in Bad Weather', printed 1932 by MacPike, *Halley*, p. 164.

of Bermudas etc when he goes. DH. at Jon. Pif, Lod. I gave Hally title of Architecture for Hoskins. Hoskins said he had improved printing floc[k]-work. Waller saw *Rudbeck of plants*. n o pp. New glasse lanthornes on the Exchange 4; met there Dr Salmon and Mordent: at Horns recd French *Lonbery*. At Jon. Ashby, Spencer, Lod, Marlow, Martin, Rock of black Diamants: *Burnet's Theory*.

S. 18. DH. n o. Jon. Ashby, Spen, Houton, Martin, black Diamant ℔ or . . .

Mun. 19. Jones, carver o: H Hayward o: Doogood o. H tea: another module. DH. With HH. to Reynols, out: met Whitchurch, his brother died Fryday night last at 12. At Jon. Gof, Dr Foot o. M. bred 1s, candles 1s. n o. At Jon. Lod, Spen, Mar, Mart, Cur, Ashby o: of an invasion from Brest. I pd Stinton for last shoos and cleard his book. I bespoke a new pair. Faltrop promisd for Thursday.

Tue. 20. At Hoxton: Jones; both gable ends brickd up without order; also a flat about cupola, Lucern lights backward: Iron cramps etc without reason, salt mouldring stone: Plumber laying high gutters, bricklayers tiling front etc:[1] all without my order. Spake with Sr R. Levet: he shamd me off. Tobacco, 1℔ 18d pd. DH. at Jon. Gof, Lod, Pif my

[1] This entry, with that for Dec. 6, shows that the Aske's Hospital at Hoxton was nearing completion. Hooke evidently considered that the front should be slated, see Jan 2, 7, and 9. Levet and Chancy represented the Haberdashers Company.

praeface. Bell-smith from Westminster Woeman. at Hab[erdashers] Hall. Left inform[ation] with Major Mould: none there but Allen: saw foundation cleering at X church for school: at Whitehead met Sinclar with Sr John Kings son who had been with me at Jonathans. At Tompions o: Marshalls o: S. Smith o: home tea. Jonathans.

Wens. 21. St. Thom. Day. Tufnell calld about his bill. I sought Pitcarn at Cheesly house near Mincing Lane in Fenchurch Street, abroad. Hammond the mason, abroad. DH. at Jon. Pif, Lod, Gof o. Royal Society met: I read a further account of Dr Burnets book, well liked: Hally read a paper of taking Right Ascention and Declination of Stars[1]: the same with what I have printed. Sr R. Southwell gave me 5 G ⊙ in the Repository: desird a rule of Resistance of water. Gave N Young tin coffe-pot: 1 pair Sleeves to wrist. Hammon and Miller calld. At Jon. the usuall company. Meverell, light Russia sope.

Thu. 22. Faltrop and Doogood extravagant bill for Dr Busby. Tufnell mason about bill for W[estminster] Abby. With HH to Pauls to see Water-engin. Deliverd back to Smith *Aristarchus Samius*, saw it crost out of his booke: Query, concerning 3 *Acta Lips.* A Committee at Hab[erdashers] Hall[2]. DH. at Jon. Gof, Lod: H. Howard about Lambeth bills. At Chandler's hall Mr

[1] The star positions were required for measuring the Moon's place. Cf. Journal Book R.S. Dec. 21, 1692.

[2] Haberdashers Hall on E. side of Staining Lane and N. side of Gresham St. at No. 33. Rebuilt by Wren in 1667. John Chancey had been elected Master and Rich. Steele Upper Warden on Nov. 26 last.

Whitchurch funerall: ring. At Jon. Scarbor flustred. Spen, Mart, Mev, Ashby, Curr. 30 ships. Bamboro condemned. Smith sent for bill of *Transact*[*ions*]. Mm. D.

Fry. 23. Very stormy W. wind & rain, n o, DH. letter from Sr R. Southwell. at Jon. Jones noe direction till order. Gof and Lod. I paid Mr Cook, draper, for 2¼ yards black cloth in full 43 shill: he crost his book and gave acquit. Marshall told me of Object glasse[1] for shutters: he promisd to make short telescope with convexes. At home sl[eep], mist my attempt. At Jon. stitch *Siam* from Horn which I deliverd to Pif his eldest dauter, head aker, younger measells. Read Aubery paper from Wilds Book of Canada. Nose bled 12 pp.

Sat. 24. Sr R. Southwell till 11, well satisfyd of his querys. I lent him my two last lectures on Dr Burnet's *Archaeologia* to coppy. H Hayward mond: DH. Michaell for module[2]; I bid him send Housman. I calld at Maj Mo[uld], out. At Caillou o, at Biagens Sinclar o; at Southouse o; met J. Gee. Receivd Faltrop's articles from Needham, surly. Sr C. Wren abroad. Met Yardly and J. Mayor. At Jon. Lod, Spen, Mart, Ashby o. From Stinton 1 pair of shoes, for which I owe him, and noe more: see last Munday the 19th. Mm. 3.6d.

S. [*25*]. N o. fair morn DH. M. St Peters. Jon. Spen, Lod, Ashby, Mart returnd, Gof, Johnson. Slip and very rainy night.

[1] Perhaps for a 'scioptric lens'.

[2] Model of Hospital.

M. 26. Rain till noon. HH tea. n o DH. Colliers. At Jon. Dr Foot, Gof, Tompion. here tea. *Vie des Cartes.* Fair pp. rain at night.

Tue. 27. N o, stormy rain. At Jon Pif, Dr Foot and Gof. Tompion about clock-shelf supported by a genius. n o pp, rain. Jon. Lod, Spen, Ashby and Houton. *History of Virginia*[1] and Yorks map.

Wen. 28. Mm. 1s; chees 11d. HH tea. Stone cariage module. DH at Gof, Lod, Foot, Beaumont, Pif. Left errata with Horn. *Vie de Des Cartes.* n o. fair. *Monde de Des Cartes.* silke.

Th. 29. Very clear and hard frost. n o. HH tea. I returnd *Aristarch* to HH and borrowd *Philostratus.* DH at Jon. Gof, Lod, Pif. Left errata and interlineary and sheets [of Siam] with Horn. Dr Foot, Jones o. n o, pp., but MF o, Pif here tea. At Jon. Ashby, Spencer, Marlo, Williams o. Very stormy rainy night.

Fry. 30. n o DH. Jon. Gof, Lod, Foot: Harlem o. n o.

Sat. 31. Mm. 16; cand et 15 . . . 3. Mist Pitcarn. Sr R. Southwell, a Councell seald Heinsons Diploma: present Plot, Pif, Wall, Hally. At Jon. Gof o. n o pp. till Jon. Lod, Spen, Martin, letterd French Count, Hayward, Needham: Jones.

[1] Perhaps John Smith, 'Generall Historie', 1624.

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Su. [*1*]. DH. M. St Peters Mr Waller. Jon: Spen.

Mun. 2. Sr R. Southwell and his son here. HH carried away all modules: he had my paper about the Strength of Wall, how to estimate it. We tryd the strength of his mortar by weight 23 lb, with the mortar stood against 50 lb pressure, but without mortar yielded to half its own weight. Tea etc. he left 5 G ⊙, which makes 20. He returnd my epit[ome] of *Burnet*, and left 3 books of Lord Cheif Justice Hales *de anima*: desird paper about pressure. At Chancys [spake?] about slating, and desird me to be at Com[mit]tee Wensday at 3 p.p. At Jon o. DH. Slpp. n o. At Jon. Hayward o: about 4 inch plank. Gave servants 2s at Jonath.

Tues. 3. HH tea. Returnd *Architect*, borrowd Pignorius.[1] At Custom house paper from Sr R. Southwell. DH. bred 1s. at Jon. Tufnell o, Gof o. I gave Hospitall Beedles 2s. N o pp. at Jon. Gof, Lod, Ashb, Spen, Mart, Meverl, Cur o.

Wen. 4. HH tea. Pressure papers etc of wall for Sr R. Southwell to whom I gave them at Pontacks.[2] There Slone, Herbert, Povy, Creed, Harewood, Henshaw. DH. at Jon Gof, Lod, Pif, Wall, Blackwell, Lane, Mart: spake with Maj. Mould, all quiet Staples and Faltrop. At Pontaks. piper. poets. n o till Jon. Lod, Ashb, Spen, Mart, Meverell. Cur o. Mm. 2s Read *Hales de anima*. Jones carver.

[1] Author of 'Mensa Isiaca', 1669.
[2] During the Presidency of Sir R. Southwell Evelyn noted 'we all dined at Pontac's as usual'.

Thu. 5. Maj Mould out. Marshall o. Calliou o. Biagens. Recd. of Dr Birch 20℔ for last year and to this Christmas. I added the summ at the end of the acquittance in figures, 20.00.00, which he letter [*line cut off*] bled with apoplectick fit. Abdalla *history of Salan*[1] translated by Muller: I read it, slight. At Wats Mr Boyles house lett. I changd silv[er] for 8 guinnys at 1.g.ōā At home J. Mayor abstract of last years account DH. at Jon. I told Martin, J. Hayward, Spen, Ashb. Mev, Cur, Houton: Pickle cabbidg etc.

Fry. Epiphany 6. Put up 23½ G ⊙ +1 Carol. Sent by Mary *Abdalla* to Dr Smith, shee brought back Stelyard from War. n o. DH. at Jon. Gof, Lod o. Horn promisd rent. n o pp. At Jon. Lod, Mev, Mart, Ashb, Spen, Vincent of E India Company. br. teadish. read Sr Mat Hale *de anima*.

Sat. 7. Mm. 1s I gave M. for New year, 1s for chickens. At Mj. Moul, out: Spake to Dr Cox at Smiths. I was presented with Mr Boyles new book of the *Generall History of the Air* 4° by Mr Churchhill[2] DH. Calld on Chancy, out. At Jon. 4 posts: Furnes taken by French, and Rhinfelt releived. Saw Beveret at Warings o. Told Gof of Hale *de anima*. Lend Hale there. Spak with Maj Mou: none but verball orders: at Gofs o. At Jon. Sr R. Levet and Chancy order that all front be coverd with slate. Alderman Sturt dead and buried.

S. 8. n o DH. Boyles *Philosf*[*ratus*] Jon. G, L, Sp, Ash, Mar, Dorvill. M St Peters.

[1] One of Greaves's MSS. [2] Publ. 1692.

Mu. 9. Jones and Michal here, I bid them put the slates on the middle front at Hoxton. HH tea. To Westm: calld at Tompion, out: in Herberts coach to Scotland Yard at Vigors coffe house Joy Host ? at Dr Busby tea. At Lord Rochester. I past Tufnell and Warners bills: in organ room always . . . Dr Birch there and Needham. At Jon. Lod, Mart, Ashb, Spen, Houton gave me his County sheet. Sl[eep]. Of Byhagen Nucks *chirurg.* 18d np. Letter from Sr R. South[well]: Lonberys book publisht.

Tu. 10. Sr R. Southwell and his son queried about walls with solid earth between. I diswaded from rake and captston, advised ditching and wall with buried trunks to carry off the water; explained to Mr Southwell all the papers of pressure, resistance of wall, centre of gravity. Contra perpetuall motion, series, areas etc. Then to Mr Chancy advised about bills, measures, estimates etc. DH. at Jon. Scot mathem: Gof, Lod, Pif, HHay[ward] Whitehead shewd Quadrant and Sextant. Slpp. n o. Suspitious fellow inquiring for me. At Jon. Lod, Mev, Spen, Pagg, Ashby: post, little: letter from John Cox about Haywards bill. At Pif Joynd Mr. Lane: talk with Waller.

Wen. 11. M. br. 1s; m. 11; ch. 9; cand. 1s. Housman and Michael fetcht away Hospitall module. I returnd Ald. Chamberlain Godets book and the Chinese paper. I recd from Horn 12 *Siams* and sent them by M. to Mr Pitfield. HH tea: he took Earth pipe for water measure. Cramer

calld from A. Hill. DH. at Jon. Westm. bills Pif, Lod, Gof, Pagit for Dr Hide seeds. Rd 3 *Siams* from Mr Pitfield, I deliverd 1 to Sr R. Southwell, 1 for Lod, 1 for myself. Royal Society met: little said: nonsense about infinites: Hally Sr R. S. spoke about Mill. At Jon. Vincent, Midleton, Houton o, then Meverell; Melon, cabidg and coucomber seed from Russia for Dr Hide. Hally [spoke] of going in Middletons ship to discover

Th. 12. No. HH tea. DH with HH to Reynold . . . out. HH coffe at Jon. Foster and Gibson about Report. Gof, Lod, Pif, Jones o. At Haberdashers Hall: Chancy, Green, Medlicot, Holder, Wats, Cubs, Littleberry[1], Farindon, Syndry. wrangle. answerd: at home I deliverd *Siam* to him from Mr Pitf[ield], with him to Horn for 5 guinnys for Mr Pitf he desird to present them himself. At Jon. Ashby, Cur, Lod, Spen, Mart, Meverell. I told Mr Pitf of Horn. I deliverd to Firmins[2] man coppy of Meads set o. This night cleer; by the last helick noe Eclipse seen.

Fry. 13. Staple ⅜d: pd Byhagen 1s for Nuck, *Chirurgery* in quires. Spak with Dr Birch at Jonsons: there Bevoir and others that knew: at Organ Room fire; past 2 Smiths bills and 2 of new plumber. Dine with Dr Busby: 2 strangers, Bullock, Matier, Robins[on] o. At Jon. Pif, Lod, Spen paper against Stationers Monopoly[3]. Cold, fair.

[1] Littlebury, the bookseller, sold part 4 of his stock on March 15, 1692, and part 5 on Nov. 29, 1692, at Tom's Coffee-house. Sold by John Bullord.

[2] Firmin, a lover of gardens to whom Sir R. Clayton erected a monument. Manning, *Surrey*, ii, p. 804.

[3] The Licensing Act of 1685 was renewed in 1692.

Sat. 14. 21 M. D O M G P[1] n o. Mm. 14d chicken. Cambridg begger from Dean of Chichester. DH. Recd from Horn & Southby for stable last quarter 1 G ⊙: Horn disputes repairs, advancing and signing paper. At Jon. Beaumont[2] Occult astrology. Dr Foot story of Button[3] cap out of Trithemius, etc. Gof, Lod, Hewet. View. 2 tea. dishes 1s. nayld boords on perpen. hol. at Jon Lod, Spen o.

Sun. 15. Fryday morning last one Mr Woodward was chosen physick Professor of Gresham Coll. in the place of Stillingfleet maried.[4] DH. Mr. Waller here 2 howrs. N Young. Woodward's book. At Jon Gof, Ashb, Spen, Martin o: headake.

Mu. 16. Headake n o. tryd with HH quantity of ▽ in ¼ inch bore 25 inch under surface and found 11℔ in 1 minute. DH at Jon. Pif, Wall, Lod, Gof, Foot: n o pp. at Jon. Lod, Spenc: printing not to need licensing. Fulling patent.

Tu. 17. . DG. to Dr Birch going to Kensington to Vigors Coffe o. D[ined] with Dr Busby Altam Angry about des Cartes and algebra. I past Gregory's bill for jobs about the Colledge etc 17℔: tea, smoke, coach, fool. At Jon. Pif, Spen, Mart, Mev, Hains: taxes. Chancy Hab[erdashers] bills.

[1] Deo Opt. Max.?
[2] John Beaumont, F.R.S. 1685, author of 'Treatise of Spirits and Magical Practices', 1705. Geologist.
[3] Ralph Button, d. 1680, one of Hooke's predecessors in the Geometry chair.
[4] Prof. Edw. Stillingfleet, Gresham professor of Physick 1689–92.

Wens. 18. Marshalls boy brought Sr R. Southwells two lamps hither by his order. A letter from him for 3 pp. At Edwards view in Throgmorton street, report 10s: at Normansills view in Aldersgate street, 10s. D. Cox abroad. Seaton, a wire-chain maker within Aldersgate, coat of mail. S. Smith a new bail of books not opend. At Jon. Gof, Lod, Hains. Flamstead married rails at Hally. DH chicken. Satisfied Sr R. Southwell of Sr A. Deans 3 scruples of advis[ing] his son. Royal Society met: more Paris . . . Memoirs of Phosphorus[1]. . . . At Jon. Bembdys cam about a stone. Hosk, Houton, Vincent, Lodwick o.

Th. 19. N o DH. pullet 1s, Mar. 1s pd. with HH, mist Raynolls. At Jon. Gof, Lod, Hain, Foot: about Atheism. At Chancys, with Allen about carpenter and bricklayers bill:[2] things more calm. At Jon. with them: then 1 houre with Mr James, then Lod, Mart, Spen, Cur, Hain o. hen found.

Fr. 20. N o. M. to Corner. Cock. DH. At Jon. Tufnell: noe abatemt. Pif, Wall, Lod, Gof, Foot o. At S. Smiths o. Sheet from Ketleby. n o. At Jon. Spen, Mart, Lod, Ashby: one from Grand Cair[o].

Sat. 21. Mm. 20d, ch. 10½, sope 1d. DH. At Jon. Pif, Lod, Gof o. I cald at S. Smith o. At Caillou o. At Biagens I ordered 8 Volumes of *La Croix* to be left at my Lod[ging], Pif to pay: also *Prestet* 2 vol. in quires to be returnd: this Byhagen

[1] This may refer to Boyles unpublished paper deposited with the secretaries on Oct. 14, 1680, and not printed until now. 'A method of preparing the Phosphorus of Humane Urine', *Phil. Trans.*, Jan. 1692–3.
[2] For Hospital building at Hoxton, cf. Feb. 10.

in Paules Churchyard promised to perform. Saw quadrant at Whiteheads. Mans, Sr Ch. Wren at Greenwich. at Jon. H Hayward not appointed. Spen, Ashby, Curr, Lod o.

Sun. 22. DH. M Peters Poor. Jon, Gof, Spen, Mart o.

Mu. 23. Term begin. (bre.+hony). Dr Jekells View at Fountain Stocks entry 10s. View for Buttolf Algate parish 10s. Dr D. Cox abroad. July, August and Supplemt 12 from S. Smith for Royal Society. Discour[se] there with Sr R. Southw[ell]. At Jon. Gof, Lod, Pif, Foot: of new Spira and Atheisme.[1] DH. n o. Pif here. perusd *Acta Lips.* At Jon o.

Tue. 24. N o. DH. At Jon. Gof, Lod o. Cald for gui[nea] at Horns, 2 out. At home o. At Jon. Spen, Ashb, Cur, Mever o. Two quakers about their Meeting house next Meads o. Recd fro Behagen 4 books of *La Croix* for Pif.[2]

Wens. 25. Wrote Rule of measuring velocity of ▽ at depths for Sr R. South, which I gave him at Pontacks. Saw A. Hill at Jeremys. I receivd 5 G. ⊙ from Mr Horn for Pif, which I payd him presently at Jon: Lod was witnesse to both. Pif treated with Tea. Gof and Foot, Strudwick and Collins and for Tuesd. at 3 pp. Royal Society met:

[1] Cf. Nath. Bacon, 'Relation of the Fearful estate of Francis Spira', 1638, and 'Spira, example of an Atheist who had apostatized from the Christian religion, 8 Dec. 1692'.

[2] La Croix, a contemporary Orientalist.

there much talk of *transactions* to little purpose. At Jon. Hosk, Vincent, Herbert, Pif, Wall, Lane, Hally, Lod, Plot, Witches,[1] etc. Mm. 10.

Th. 26. To Dr Birch at Johnsons Coffe house: Lister there: discoursd Sr Ch. Wren at Mans: Bevoir: home in Dr Tison's coach: borrowd of Behagen *Prestet* 2 Vol. in quires. At Jo. Gof, Lod, Foot: tub of Grains. Gof here tea. DH. n o. Jon, Lod, Spen, Mever, Ashb, Curr. The K. past the Fund Bill etc. Examine *Prestets*.[2]

[*Fri. 27.*] N o. Mm br. 1s. Spencer calld for 3rd Pole[tax]. Swarbrek cald. At Jon. I paid Mr Bayly 64sh. for 8 lb of tea in Full, Jones carver was by. At Jonathans. Pastorall Letter from Gof: read *Prestet.* At Jon. Pif his lady bloody flux and stools by saletting. Waller o. Gof, Lod, Foot, J. Gee calld. Copyd *Prestet.* At Jon. Spen, Ashb, Lod, Capn. of Gran Cair o.

Sat. 28. Mm. 21, so. 1. DH At Jon. Lod, Foot, Collins and Strudwick o. n o pp. At Jon. Spen, Ashb o. Read *Prestet.* To fob 40s. Mr Woodward the physick professor read his speech in the Hall to neer 100 auditors about 11 in the morning and entertaind some at the Angell and Crown in Threedneedle Street.

Sun. 29. N o DH. Mr Waller here. M. St Peters. Dr Beveridg. At Jon o.

Mu. 30. With Mr Waller at Sr R. Southw. Tea.

[1] Sir Peter and Sir Cyril Wyche. F.R.S.
[2] J. Prestet, 'Nouveaux Élénas des Mathématiques'. Paris, 1689.

I gave him account of 6 foot Sluce: also Ld Bacons book *Densi et Rari*. Discoursd abt my arrears, etc. Waller about Secretary. We calld at Whiteheads: saw quadrant for Leipsick: proportionall compasses. at Child[s] Dr Slone. At S. Smiths o. At Wallers, saw his limned plants. DH. At Jon. Lod, Pif, Foot o. I spake with Chancey: *Prestet* nauseous. Mr Waller returnd my *Rudbeck of Plants*. At Jon. Lod, Spen, Ashb. Martin o.

Tu. 31. Cox plumb[er] cald: I gave noe order. At Jon. Holt and Stockly: digging and cariage . . . yard 3½ r . . . and garret at 40℔ per sq. Pif. Waller, Lod, Foot. At Blackfryer coffe house. Strudwick, Onslow and 7 or 8 with deputy. Collins refused View o. At Tompion out: at S Smith, Lipsick bail [of books] not opend.

February

We. 1. N o. Enquird for Mr Pitcarn at Cheesly. DH. At Jon. Lod, Pif, Wall. Cald at Gof, in the country. At Smiths 2 *Leipsic Acta* of Septemb. and August. I bespake *Burnets Archaeologia* of Kettleby. Royal Society met: Plot borrowd book for Oxon. Hosk in chair, Hally, Newton and Gregorys papers of squaring curves. At Jon. Hosk, Herbert, Hill, Pif, Torrean[1], Houton, Gale, Hally, Hain, Lod: chat about εικων βασιλι:

Th. [*2*]. I paid Mr Spencer at the Angell in Bishopsgate Street collector of 3d quarter of Pole

[1] Torreano, Gresham professor of astronomy.

Tax, 22 shill. Mary by, and saw him crosse his book. DH. At Jon, Pif, Wall, Lod: then with Holt to Mincing Lane: viewd Sr J. Fleets new house, treated wth Stockly. At Jon. Lod, Spen, Martin, Crosse his *Memorialls*, 6d. Close and thick air but warm and calm. HH tea.

Fryd. 3. Bancroft calld about Veres Report. Swarbrek calld o. H. Howard did not call as he appointed. Sent M. with *Prestets* book in quires to Behagen. She brought back the *Journal des Scavans* for Anno 1691, for which I am to return myne sticht. Mm. 6. DH. [*Line obliterated*] drunk. In MF saw a peice of *Picus Mirand. de ludificatione dæmonum.* At Hoxton Jones o: paid Horn 6d for Crosse his *Memoirs* for January. Much out of order and stopd in breathing. At Jon. Firmin,[1] Spen, Mever, Cur, Hain, Hally o: Swan drawer killd[2].

Sat. 4. HH tea: borrowd Milton *Engl. Hist.* Spake with Sr R. Southwell at Custom house about sluce, mill tides etc. DH. Mm. 2.3d. At Jon, Lod, Pif, Foot o. also Chancey about lead for Vally: at Guildhall for meadiator: Firmin.[1] Juice promisd 5℔ for last half year for stable. Spake with Sr R. Levet: Mould out. S. Smith o. Tryall ended at 7 pp. Firmin praevailed. At Jon. 3 posts. Ld Mohun acquitted.[3] Cur. Ashb, Hain, Hally o.

[1] The great philanthropist, *D.N.B.*
[2] The Swan tavern was close to Jonathan's, see plan on p. x.
[3] On charge of having killed Mountford, the actor.

Sun. 5. N o DH. M. St Peters. Jon. Ashb, Martin: Harlems 3.

Mun. 6. I gave Mich. direction about Hoxton Vallys. I sent back to Sr R. Southwell the 3 volumes of Ld. Hales *De Anima*, a MS by Mary, and recd back Ld Bacon *Densi et Rari*. n o DH. At Jon. J. Hayward, then Pif, Lod, Foot o. n o pp. Udall[1] calld. N. Young made salve etc. Auction at Wapping. Candles, sope, chees 1s. Drisling.

Tu. 7. N o. Lecture. W. Collins calld. DH. At Jon. spake with Collins from Westm[inster], also Holt and Stockly, not agreed. Gof, out of country, I advised forbearing chocolat. At home J. Mayor o. At Jon. J. Hayward, H Hayward and Longman: quarrell: to call to morrow.

We. 8. Mm. 3s. John Hayward here. We adjusted the Rates of his great Bill. DH. At Jon. Holt and Stockly he proposed per 45 per Sq[uare] vaulting included. Then Foot, Lod, Pif, Blackwell o. Royal Society met: I gave Sr R. Southwell sluces of 6.5.4 foot square:[2] Sr R. Clayton[3] præsent. At Jon. Hosk, Herb, Gale, Wall, Pif, Lod, Houton, Hally, Vincent. Cav. Diving divill: Osgood and Quakers 5s, roomes altering. Rain. Whitehead had finisht quadr[ant] for Leipsick.

Th. 9. Noe auditory mane. I spake with Mr

[1] Perhaps Robert Uvedale, the old Westminster and distinguished horticulturist.

[2] Edw. Southwell wrote a letter to Hooke about sluices dated Jan. 25, 1692/3. MS. Sloane 1039. See Dec. 9 last.

[3] Lord Mayor 1679–80: M.P.

Cruger at his house in Limestreet. I calld at Tompions, then at Whiteheads. Cruger came not, but I met him going at S. Smiths door: I told him that Whitehead would bring it to my lodgings Tuesday next. Rafeson and he would call there. Pd. Marshall for spectacle case 1s. DH. At Jon. Pif, Lod, Goff, Foot, Holt, Woodstock. I read a Lecture to a full auditory, with Paget and children. With Paget at Jon. One Vaughan complaining of injury done him by Hoxton sewer etc. At home. to Jon. Sr William Turner died this morning. Auction Catalog. Borrowd Ashbys *Fund Act.* Williams.

Fry. 10. Michael beedel cald twice: to Chancy, Allen and Mould to coffe house in Freemans Yard: with them to Hoxton to view and measure. Dep. Littlebery 2 measures, and wee dind at the White Horse. Rd. from Maj Mould 18 for Tryons letters. Tilden came not as appointed. I stayd with them from 8 m. to 4½ p.m. Viewd Sashes in Bedlam house. Sr Ch. Scarb[oro] 77.[1] At Jon. Hayward lookd over his Bill for brew-house, garden, bird-cage etc. 2 posts.

Sat. 11. Mm. br. 3s. Woodward here: he read of Gravity to 3 auditors. DH. At Jon. Holt and Woodstock 0, Dorvill, Pif, Lod. Paid Waring 23½ for hatt band brush box. With Gof. to his house tea. At Sheltons auction, view books. At Jon 0. from Strudwick for Blackfryer view 10s.

[1] The eminent physician; born 1616, died 1694.

Sun. 12. n o DH. M. St. Peters. Jon, Gof, Lod, Ashb, Mart, Houtons.

Mu. 13. Term end. A holyday observd for the King's and Queens proclamation. S. Smith askt for account of *transactions*. I returnd the *Journall de Scavans* of 1691 unbound, for that I receivd bound, to Behagen: Dr Birch was abroad. Much snow made me return to Jon. Pif, Lod, Gof, Foot. Westminster plumbers. Gibson: Gazet. At home. Chancey. Tilden refusd valuation, he desired me to procure one. Thredman about his Bill. Whitehead brought the Quadrant for Leipsick. I sent by the penny post 2 Plumbers bills and Collins his bill to Dr Birch. Raisins in Gruell. at Jon. Lod, Spen, Cur o. Some bonefires:

Tues. 14. Valentine's Day. With HH to Lambeth, viewd Garden, brewhouse and mote, and advised the banking of it. Spake with Mr Cox. J. Hayward said to be very sick. At Jon. Pif, Lod, Gof, Foot. [*line obliterated*] N. Youngs girle. In MF saw Piresius his *Exercitations*. At Jon. Lod, Meverel, Ashby, Spencer, also Allen and Chancey about Champion carpenter.

Wensd. 15. 2 *Stones* and 3 Vol. of Ld Hale *De Anima*. Councell of Royal Society: Dr Plot to have 40℔ per an. for Corresp[ondence] and *transactions*: Upon my demanding arrears, Hoskins shuffled it off. At Jon. Pif, Lod, Waller, Beaumont, Foot: chat. DH. I shewd Leipsig Quadrant to the Society: the horn Lanthorn all intire shewn by

HH. At Jon. Hosk, Vincent, Pif, Wall, Hally, Houton, Hain. I brake my spectacles. I told Tompion the way for the ballance and pendulum of coach watch. Caught a cold by wood fire. I lent Mr Waller Lewenhoeks last Dutch book.

Thu. 16. Sr. R. Southwell calld to have the quantity of timber for Floodgates: told me aversion of Pontac Counsell to me. n o. new spectacles. DH. At Jon. Pif, Wallr, Lod, Gof, Foot: pd. 8d in MF for Pereiras *Select Disputations* vol. 1.[1] At Shelton Auction pd 5d for Hickeringalls *Jamaica*[2], 13d for Moline *Spirituall Guide*. At Jon. Ashby, Mev, Hains, Wild, Williams, Martin, Lod, Spencer: chat of Lines. HH tea.

Fr. 17. HH tea. The weight of Sr R. Southwell 3 stones. DH. At Wallers: he will correspond and publish *transact*. At Jon. Lod, Pif: chat. At Collins view in Blackfryers. Sr Pat. Ward[3] and Deputy report, 10s. At Jon. Spen and Lod o. I borrowed proof sh. of Horn [of] Blunts *naturall History*. Recd. a ticket to goe to J. Hayward funerall tomorrow. Recd Millingtons Catalogue. Cand[les], Sope, 15d.

Sat. [*18*]. Cramp. n o. Cald on Waller. Wth Sr R. South[well] at Custom house: estimate of timber quanti. for Sluse, floodgates, Lundby, 33 load. Rd. order for Burnets *Archaeologia*[4] for Malpighius.

[1] 1601. [2] Edm. Hickeringill, 'Jamaica Viewed', 1661.
[3] Sir Patience Ward, Commissioner of Customs, *D.N.B.*
[4] A discussion of the first chapter of Genesis, publ. 1692. *D.N.B.*

DH. I returnd to Mr Horn himself Sr Tho. Po[pe] Blunts *naturall history*.[1] At Jon. Holt and Woodstock, 40 ll per sq. Then Gof, Lod, Foot: Vote of Lds against militia Bill of 3. y. Parlt. To J. Haywards funerall from Falcon.[2] Mm. 3s, 1 pr. Gloves. I stayd till 9½. At Sheltons Auct Salmon bought Scotti *Magia Natur.* 2 vol. 13:[3] I bought o. At Jon. Lod, Spen, Ashby: that Havana had been destroyd by Earthquake the same time with Port Royall in Jamaica. Vincent o.

Sun. 19. DH. Waller, told him about Egypt Plagues and Exitus of Jews, of Moses Sina[i], Red Sea, Pererius etc. he solemly promis'd faith. at Jon. Gof, Ashb, Spen. p. M. 20. n o. Brea. 1. DH. at Jon. Gof, Hally, Gazet o. n o pp. At Jo. Lod, Spen, Mev, Cur o. read Hickering[all]: wrot Lecture. Waller. S. Smith at Basingstoke.

Tues. 21. Rainy m. n o. HH mill trough. DH. At Jon. Holt and Woodstock and West, noe agreement. Lod, Gof, and Foot o. At home Waller: tea till 7 pp. At Jon. Lod, Spen, Cur, Mart, Mev, Hain, then Levet and Chancey till 10 at night [Hoxton business]. Rain.

Wens. 22. Mr Chancey calld: with him to coffe house Coleman Street: there Campion refusd Valuation: then with Chancy, Allen and Mould to Hoxton: at Whitehorse, br[ead] and ch[eese]. Slater almost finisht. I Returnd with them. DH.

[1] Sir T. P. Blunt, *D.N.B.*
[2] See April 14 last.
[3] G. Schott, 'Magia Nat.' 1659, repr. 1677.

Sent back *Harlem* to Robin by HH. At Jon. Gof, Lod. I calld at both auctions and at S. Smiths o. Royal Society met: I read my Description of the Instrument[1] shewd last day. Sr R. Southwell pleasd; a French stranger present. Hosk, Hill, Slone, Pitts, Mills, Vincent, Lod, Pif, Waller, Plot, Houton, Wicks, Hunt, Hally, Creed[2], Middleton.[3] At Jon. Middleton, Hosk, Plot, Lod, Pif, Wall, Hall: Itinerary: then Woodstock gave estimate of Holts house. Fair day. Melanch.

Thur. 23. Cold. n o. Calld at Millingtons auxion. DH. at Jon. Holt, Gof, Lod, Pif, Waller: greater news of Sicilian earthquake, 120000 people lost. Slpp. Waller, with him to Millington Auct o. at Jon. Lod, Spen, Ashby, Mart, Meverell o.

Fry. 24. Mathias. Chancy and Allen here, they went to Hoxton. Snow, rain and cold with loosnesse hinderd me. Mm. 8d. DH. Mill module vanes. Holt calld for Draughts and copy of Contract. Chancy, Pif calld to tell me nothing was done at Hoxton meeting. Began lecture of Earthquake. Mr Jo. Beaumont presented me his Book (*Considerations on Dr. Burnets Theory* etc): when he was gone I found he had Dedicated it to me. At Jon. Ashby, Spencer.

Sat. 25. Snow much all day. At Jon. Michael, Cox plumber, I directed him 7 lb per foot pedaments, and sent him to Chancy for orders: Diton

[1] Quadrant, see March 1 and 9 following.

[2] Dr. J. Creed, F.R.S. 1663, was Pepys's companion on the occasion of the funeral of Sir T. Viner when 'the Haberdashers' Hall was so full that we were fain to go forth to Pater Noster Row, to choose a silk to make me a plain ordinary suit'.

[3] Middleton, F.R.S. 1687.

about Slate I sent him to Mou[l]d. J. Hayward about his bills: next week. Then Lod, Gof, Foot, Woodstock. DH. Harlems o. Continued snowing till 12 p.m. At Jon. Spen, Mart, Houton, Hally o. Mm. 3s. cheese.

Sun. 26. Snow all day much. DH. In West-m[inster]. Jon. Spenc o.

Mu. 27. n o. Jones carver o. Chancy by Baker told me of Hogs milt foretelling winter. Calld on Waller. Ld Notingham chancellor. Gentle thaw. At Jon. Holt, Woodstock: his lowest 1050 ll: Gazet of Earthquake in Malta. Bread, 1s. Bor[owe]d Sand *Ovid* of Waller.

Tu. 28. Shrove Tuesday. n o. M. Walbrook. DH. At Jon. Lod, Pif, Foot. Waller here resolud on Correspond[ence] and *Transactions*. At Jon. Ashb, Spen, Mev, Lod o. A gentle thaw.

March 169⅔

Ash wensday, 1. Mm. 21. Spak with Whitehead. Tompion out. DH. At Jon. Gof, Lod o. Royal Society sat not, Slon, Hill, Houton, Hally, Hosk, Pif, Hosk. At Jon. Hosk, Lod, Hunt, Hall, Waller, Pif, Vincent o. Mr Cruger cald and sayd he had paid Whitehead and would ship the Instrument[1] for Leipsig to morrow.

Thurs. 2. n o DH. At Jon. Gof, Lod. Holt of Miller. Chancy calld, 20 Rod lesse then bills.

[1] Hooke's quadrant, see February 22 and March 9.

Lecture of Proserpina Rape.[1] At Jon. Cap. Paggin told me R. Giles had paid Cap. Newland. La Croix his *2d memoirs* from Horn 6d, then Spen, Lod, Meverell etc o M. cand. 1s.

Fry. 3. Chancys at 10 about Bricklayer measures: excused my not coming pp. Chancy promisd to move for my mony. DH. At Jon. Gof, Lod o. n o at Jon. 2 Smiths, Herberd, Astons, Ashb, Spen, Lod: story about Ask etc. HH against to pp. 4 sh.

Sat. 4. n o. Mr Waller here. I read my discourse on Proserpina. DH. At Jon. Gof, Lod, Pif, Wall, Lang, Foot: discoursd of Proserpina. Walk with Gof in MF o, in MF again saw 2d vol. of livy [?] Sr Gorges *Description of New England*[2] etc. Sl. at Jon. Lod, Spen o. Mm. 27d. Thaw, fair, sunshine.

Sun. 5. Rain: great thaw all day. n o DH. N. Young had cloth for 3 pair sleeves. At Jon. Lod: slep.: post o.

Mun. 6. N o DH fair thaw. At Jon. Wall, Pif, Lod, Colson, Beaumont o. I lent Mr Pitfeild my Adams *Index Villaris*.[3] An order from Haberdashers committee for covering pedaments with lead. At Mrs Mores read her ὑποταττω ἐκ ὑπακουω.[4] At Jon. Lod, Spen, Vincent, Ashby. Not a farth[ing] for a cartload of Hypotheses. Raind much at night.

[1] Proserpine also figured in Halley, 'An Account of the change of the Variation of the Magnetical Needle; with an hypothesis of the Structure of the Internal parts of the Earth', in which he quoted Claudian 'de raptu Prosperpina'. *Phil. Trans.*, Oct. 19, 1692.

[2] Sir Ferdinando Gorge, 1659.

[3] An Exact Register of Cities &c., May 1690.

[4] This has been read by Mr. H. Milne, of the British Museum, who explains it as 'I lay down the law instead of receiving it'.

Tu. 7. n o. DH. At Jon. Gof, Lod; Holt and Stockly, noe agreemt. n o pp. Rd. a Letter from my tenant Weigh that he had paid Capn. Newland 8. 18. 6 for last years rent. At Jon. Ash, Spen, Mart, Mev, Lod o.

Wed. 8. Tom bricklayer calld. DH at Jon. Hewet order for View. Lod o. Mm. chees 3s. Royal Society met: I read a full account of Mr Beaumonts answer to Dr Burnets Theory: present Hoskins, Hally, Dr Pit, Dr Slone, Dr Vincent, Houton, Waller, Pitfield, Lodwick, Creed, Wicks, Hunt. At Jon. Hosk, Hally, Pitf, Waller, Lod, Vincent, Houton o.

Th. 9. Spake to Whitehead for Paper, he sayd he had recd 26℔ for quadrant etc. At Callous and Behagens o. With Sr Chr. Wren at Mans and Dind with him, he shewd me accounts fair written: Banks was there. DH. also slpp. At Jon. Spen, L, Ashb, Mev, Vincent: further account of Earthquake from Malta.

Fry. 10. At Ld Carmarthen and Skinners View in St. Mary axe o. Oliver, Halton, Biggs, Fil. DH. At Jon. Gof, Lod, Foot o. At Haberdash Commite of Hall. Bricklayer and carpenters Banks akn. Faltrop. Spak plain, told of Sr

[*line obliterated*]

lay all on me but is not able. pd 18d for 1 lb cand? to Jon. Spen, Ash, Lod, Williams, Waller: Le Clerks book of *Prophesy*. Waller had agr. with Smith that he should have noe proprietary [in

R.S. publications]. Letter from T. Crawly. Lime of oyster shells.

Sat. 11. n o, examine books. Mr Waller calld for Dr Wallis paper. DH. To Jon. Holt, Gof, Lod, Wall, Pif o. Rainy after noon. 1 pair of sleeves from N. Young. Gave her girle 2. Mm. 2. 4. J. Mayor here: tea: Waller stayd not. At Jon. Spencer and Vincent; Leiborns proposalls.

Sun. 12. n o DH. At Jon. Gof, Ashb, Martin: 2 Dutch posts o. Mr Heithusen in Austin Fryers died yesterday. Waring and a stranger. In Jon. new made room.

Mun. 13. n o DH. At Jon. Lod, Gof, Pif. Holt, Stocly agreed for 1000, chimny peices and white tyling to be done. At Cap. Paggins sick of an ague. At home till 6: in MF pd. 8d for Sr Ferdinand Gorge of *New England*. At Jon. Lod, Spen, Martin o: Staples would have had me prise his Bills.

Tues. 14. To J. Oliver at Bird Coffe house, 15s for Ld Carmarthens and Skinners view. With Beaumont at Childs Coffe. Sat with Henshaw, Dr Barnard, Dr Gibbons: chat. At Jon. Gof, Lod, Pif, Waller, Hally o. DH. n o pp. At Jon. Lod, Spen, Ashb, Meverell o: Parlmt. prorogd to May 2 next; K past 21 publique, 22 private bills.

Wen. 15. Mm. 2s. DH. At Jon. Gof, Lod, Foot o. Royal Society met: deliverd Burnets book to President: 3 French men: Hally read again his

paper of burialls.[1] Hoskins about loadstone. more about great Shell. NB. Slone. At Waller undertook *Transactions*. At Jo. Hosk, Waller, Pif, Lod, Houton, Vincent: chat about Wood. Milburnes book examind from T.F. 2 houses burnt at noon at Garlick Hill.

Th. 16. At Capn. Paggins, he gon into the country not to returne till next Munday. DH. At Jon. G, Lod, Pif. pp. n o. At Jon. Spen, Ashby, Mever, Martin, Colson. Br. 1s, candles, sop 14d. perused *Journalls*.

Fr. 17. n o. First very fair, then rain to night. DH at Jon. Hales about mill lead mony. Gof here tea. To Mr Vanheithusens funerall, 700 people: raind all the way from Drapers Hall through Exchang up Cornhill through Bishopsgate Street, Threadneedle Street, Broadstreet to St Peters Poor; there a sermon, then buried in the Dutch church: aged 75: rings: many mourners. Gof here tea. at Jon. Ashb, Spen, Cur, Houton. Letters. Spake with Chancy at Drapers Hall.

Sat. 18. $\frac{2}{3}$. n o: head ake. DH. Jones calld: at Jon. G. L, Pif, Holt and West Scrivener. Walkd to Behagens, pd 3s. for *Journall de Scavans* of 1692. At Jon. Lod, Ashby, Spen, Vincent, Waller. Saw first sheet of 195 *transact.* Mm. 2.

Sun. 19. N o DH. M. St. Helens. Mr Waller At Jon. Mr Wal[ler].

[1] Halley, 'An estimate of the Mortality'. *Phil. Trans.*, Jan. 1692/3. For computing the value of Annuities for one, two, or three lives.

Mon. 20. Stormy morn. A gentlewoman to enquir about my Loadstone from old Mr War. N o DH. At Jon. Gof, Lod, Foot, Pif. At Capn. Paggin he said that R. Giles paid the mony to Cap. Newland: he could not find the letter, but sayd he would pay the mony to none but me, and advised me to write for another bill. Viewd books in Sheltons auction, stormy rain hinderd my going to that Sale. At Jon. Ashby, Spen, Lod, Cur, Adrian, Vincent: chat. To fob 20s. Hales.

Tues. 21. n o DH. At Jon. Holt and Stockly agreed front and ground plat. Gof, Lod and Pif o. Mr Waller here. I lent him *Memoires de mathematique et de physicque* of Jan. Feb. Mar. Aprill. In MF I saw neer 100 of Mr Boyles high Dutch Chymicall books ly exposed in Moorfeilds on the railes: also Raung or Dr Pells *Algebra*[1] in high Dutch. An impudent cheesmonger rusht into my closet: A Rabble of boys. At Jon. Ashby, Spen, Vincent, Lodwick, Meverell: news of a dead whale 78 foot long cast ashore at Sutton in Lincolnshire. Ches. 2d. Very fair, cold. By a letter from Mr William Hide the Lord of the Mannor of Sutton Marsh where he says the whale was taken the 14th of this month, I found that the whale was 74 foot long and that his mouth was 15 foot high and soe big as to contain a coach and six horses, and is calld a Potfish.

Wens. 22. n o. A View of a new forge under Waxchandlers Hall: Aldersy master 10s. J. Oliver came not. Found doors open, M. out. DH. at Jon.

[1] J. H. Rahn, 'Introduction to Algebra, altered by Dr. Pell', 1668.

Gof, Lod, Pif, Jones carver. In MF paid for Rahn *Algebra* 1s. for 2 other Dutch chymick books 6d. At home. Vincent, Lod, Slone, Pits, Perry, Roberts, Hill, Herbert, Pif, Waller, Hally: noe sitting: discourse of Hally on mort[ality] bills of Breslaw: of comets. At Jon. Waller, Pif, Lod, Vincent, Ashby, Spencer, Houton, Hally: about Whale and Sperma Ceti.

Th. 23. n o till 11½ in MF saw many of Mr Boyles German chemicall books, also Bechers word-book[1] o. DH. At Jon. G, L, Foot, Wall, Pif o. At Tower Auction at 7. pp. o. At Jon. Lod, Ashb, Sp, Mev.

Fr. 24. n o. very heavy and ill. Jones Carver calld to see his statue. It raind violently at 11 and 12: water ran into my cellar. DH. At Jon. Gof, Lod, Foot, Pif: the King gon this morn by 5 for Holland, the Queen accompaning: new Praefirments at Court: Duke of Pomfret, Duke of Newcastle, Duke of Bedford, Ld Keeper Summers, Attorny Generall, Solicitor Generall, Secretary of State. In MF o. n o pp. At Jon. Lod, Spen, Mart, Ashb, Vincent: Turky and E. India ships stopt: E. Ind. stock 135. Gres[ham] Committe sat. Torreano[2] demanded 350 ll. for alteration of his Lodgings: to be viewd. Hally and Jed spys. Ended search about *transact.* Hally sayd Smith allowd him but 9s. for 12 *transactions.* I have delivered 17½ dozen at 12 to dozen, 7. 17. 6.

Sat. 25. Lady Day. Very cold: afternoon some

[1] J. J. Becher, 'Novum organon philologicum'.
[2] Gresham professor of astronomy.

Rain. In MF Paid 1. 9d for Bechers *Novum Organum philologicum.* DH at Jon. Michael Beedle for Hoxton, Munday 8 mane. Pif, Waller, L, G, Foot o. With Mr Waller to Dr Gale: recovered. At S. Smiths, he sayd he would claim noe propriety in what I should print in *transactions,* but it should be free for me to print it elswhere. Kettleby out. At Jonath. with Pif and Waller: 3 posts sayd to be cast away.

S. 26. N o DH. At Jon. 4 Posts, Carasa dead, noe peace between Empr. and Turk: Savoy not recoverd: Further mischeifs in Earthquake in Sicily: a great Plague on the Caspian Sea: a new but very mortall disease at Legorn: Ash, Spen, Gof, Witch Marlo, Houton. Docks for Building ships: 1200000 houses in Engl. and Wales: Publique Accounts for 4 years: 19000000. Cat lost.

Mu. 27. To Hoxton: Chancy, Allen, Watts viewd and valued Brickwork. Dined there. Mould, Staply, Web and Nicols: Mr Pitfeild here at 5: then met Chancy, Allen, Watts at Jon. with Nicols, where they cast up Bills, Nicoll asserted that the usuall prise for Rubbd and Gaged work was 8d per foot and that he would doe it soe. He sayd that 6℔ per Rod running was allowed for the sewer in Fenchurch Street, all works included; it is above 6 foot high.

Tu. 28. n o DH. I left Hales Bill Contract and Michaels weights with M Chancy. At Jon. Lod, Gof, Foot. Gof here tea. Walk round MF, askt at ♣ for J. Oliver. Read a *Catal.* of Morgans and

Boyles books at Toms. Viewd Smiths new house o. At Childs with Waller. Met Rafeson and Momford. Receivd a letter from Leipsick in high Dutch. A wax candle like to fire the house at Jon. Lod, Spen, Wincent, Adrian, Martin, Meverell.

Wed. 29. n o. Meeting of Councell at noon the Præsident came not: S. Smith was to be sworn Royal Society Printer. DH. At Jon. a letter from Mr Needham for Westminster to morrow. Gof, Lod, Foot: chat. Calld at Toms for Catalogue, one for Mr Waller dd. to him: he gave me *transact.* 196. Royal Society met: S. Smith sworn printer: he would have borrowed Graves *Pyramidog.*[1] Mr Henshaw askd for *Gyant Causey*. HM. and Aubery, Hoskins tools. At Jon. Midleton, Hally, Herbert, Waller, Pif, Lod, Blackwell, Vincent, one Dr Lane: venturous chat. Gave Jon ½ crown for a shilling.

Thu. 30. At Caillous and Biagens o. Sr Chr. Wren calld. Spake with J. Oliver of Sibbers at Vigars Coffe house. Stump. of Astrol. and platonic year. With Newman to view Listers house for Chapter. At Mr Needhams. Dind with Dr Busby, Bulloc, Matier, Rob, Knipe of Proserpina o. to come Munday. Sought room in Abby with Lake: made a valuation for Lutton Church in Lincolnshire wher Dr Busby was christened about Michaelmas 1606. He desird stating acct. of cloyster house and building Tuttle wall. Met Mr Zulich[em] at Tompions, but knew him not. At Jon. Ashby, Spen, Adrian, Lodw, Cur, Waller. Silvanus Morgan,

[1] J. Greaves, 'Pyramidologia', 1646.

F at Paule, dead: also Mr Chetwin died about a fortnight since of smalpox.

Fri. 31. n o. HH tea. borrowd index(?) and 3d *Register of Royal Society*. At Jon. Hey called to refund the 18. Foot. Lod, Gof: of Helmont Stubs Comwy[1] chat. Garter and Golden fleece. Rainy. I promisd Cap. Paggins to view for him. n o pp. At Jon. Ashb, Spen, Lod, Houton: S. Morgan[2] died Tuesday 73 y[ears] old and buried this night. Candles, sope, starch, chees. 2s.

Aprill

Aprill. Sat. 1. Mm. 28d, br. 1. Walk with Gof to Hoxton: Statue too small: direct for water pipes. DH. At Jon. J. Hayward, Pif, Waller, Gof, Lod, Paggin. Waller left paper of tea. With Cap. Paggin to view building in Old Street, calld at Ketlebys, out. At Jon. Le Crosse gave me 3d. *memoriall*: chatt, the man is fantasticall.

Sun. 2. n o. N. Young pd. her 2½ sh. for making sleevs etc. Dined here and tea. M. Westm. At Jon. Gof, Ashby: story of great thunders in Sommersetshire. Waller here: about 3 pap. for *transact.* etc. left here 5 letters concerning inspiration, qu[?].

Mun. 3. Jones about Westm. At Vigars coffe h. o. With Mr Needham to view Listers house, Lister . . . half. Spoke to to gray(?) Smith. Met Plucknell, Tufnell etc. NB. Lakes information. Dr Birch came not, noe chapter. At Mans coffe Sr Ch. Wren and Dr Gregory, about Dr Wallis

[1] H. Stubbe, 'Commonwealth of Oceana', 1660.
[2] Professional Arms-painter, *D.N.B.*

and *Ouvrage de Scav*[*ans*] borrowd. DH. Read *Ouvrage* etc. At Jon. Houton, Spen, Ashb, Lod, Foot. Bells lately melted at Oundle by lightning in Norhamptonshire and at Wintercomb in Devonshire. At the same place where formerly was the storm in the church: from Mr Lapthorn.

Tues. 4. Transcribd Dr Gregorys paper. With J. Oliver and Woodstock viewd young Esqr. Sturts buildin in Seething Lane 10s. Attended Ld Carmarthens businesse at Court of Ald. 11. At Birds I writ our Judgmts. of Sturts building. At Jon. Gof, Lod, Foot, Waller, Pif: I left Dr Gregorys paper for him at Jon. Answerd Spencer flood. DH. 2 strangers ran into my parlor. N. Young here. News that Rob. Giles was lately dead. Mm. D m. At Jon. Gof, Spen, Ashb, Mever o.

Wed. 5. Spake wth Capn. Paggin who promisd to send to Capn. Newland for a 2d Bill. I left Mr Wallers tea with his Servant. I left Germ. letter with Crugers man to translate. DH. At Jeremys o. At Jon. Spencer flood: also Jones, Hou, Lod, Gof, Foot, Wall o. Left estimate of leas of Minorys houses. With Spencer, Angell, Herbert. Met Sr R. Southwell. At Toms Auction o. At Jon. Midleton, Hally, Lod, Pif. Hedake. Mm. 26.

Th. 6. To Guildhall till 2 about Ld Carmarthens o. At Jon. Gof, Lod, Foot: 2 posts, little. DH. I wrote for Waller account of Waterpoise for discovering the mixed Salt.[1] With him to Childs Coffe house. S. S[mith] gave me a promise not to hinder

[1] The Waterpoise is figured in the *Phil. Trans.* for Feb. 1692/3.

me the use of anything of mine that should be printed in *transactions*. I paid 27d for Hermanus Hugo *De prima scribendi origine*.[1] At Jon. Lod, Spen, Cur, Vinc, Ash.

April 7. 1693. Fry. n o. 11. MF o. DH. At Jon. L, G, Foot, Pif: chat: smut. To Bullord auction: pd 14s. for Hob. *Homer Iliad*: Restord to Arbuthnot thesis: borrowd *Streightning Logarithmick Line*. At Jon. Spen, L, Ashb, Vinc, Cur o. Transcribd Demonstr.

Sat. 8. N o DH at Jon. Hales about Haberdas[hers]. G, Foot, Lod, Pif, Waller: told him of trying black sand with Sandiver. n o pp. MF pd 4d for Hues *Vineyard* and *Flowergarden*.[2] At Jon. Spen, Lod, Ashb, Hain, Hally, Vincent, Martin. ♄ Houton. Snowdon 1250 yards perpend, ☿ at 25 inches. St Helens h[eight?] 1000 yard. Post, noe news. Mm. 22. Chees 11.

Sun. 9. n o DH. M. St Peters. At Jon. Hoskins: about wind ▽ engin and △▽ engin: Paper hanging. Gof, Lod, Spen, Ashb, Mart o. Doors open. Mm D.

Mon. 10. Spak with Kettleby about account of Dr Burnets Book. At Caillous and Behagen o. Mist Dr Birch but left note for him. At Jonsons coffe house. Saw Sr A. Kings Daniel, Sr C. Wren at Hamp. Court. At Tompion, gold will not guild tin. At Jon. Gof, Lod, Pif, Lane. DH. Bread 6d.

[1] 1617.
[2] Wm. Hughes, 'Vineyard', 1670; 'Flower Garden', 1672.

Ned Roberts dyed this morn in Whitgateally without Bishopsgate. At Mrs Moors tea: Mr Moor about a bricklay[er]. At Jon. o

Tu. 11. With Pif to view house at Hoxton: Parker and another. Noe chapman. Rainy return. DH. at Jon. Pif, Lod, Gof, Hayward about Lambeth bills. Foot. n o pp. Pif proferd G. ⊙, which I refused: borrowd keys of Waller. At Jon o. Severall solicit for Neds place. Much rain.

Wed. 12. Mm. 2. 4. DH. perused 7 Journalls at Jon. Harlems: Detres 5 fleet shattered: account of Sicilian earthquake, given me by Pif. Royal Society met. I read my *Discourse of the Rape of Proserpina.*[1] Hally and Middleton made proposalls of going into the South Sea and round the World, buoyd up by Herbert, Hill, etc. Knight entertaind for porter: the 197 *Transaction* from Mr Waller. Sr R. Southwell told me that Sr J. Cutler had sent for Ld Radnor and his daughter[2]: that Ld Radnor had promisd him for me. At Jon. Lod, Vincent, Hally, Houton: chat. △. Cap. Paggin paid me 8. 18. 6. by bill from my tenant Wey in the Isle of Wight. I signd 'Receiud' on the said bill. I disswaded Cap. Paggin from meddling with the buisnesse at Old Street end.

Thu. 13. Adjusted Haywards Lambeth bills. DH. At Jon. Gof, Lod, Foot: pd. 6d for *Relation of Sicilian Earthquak.* At Mr Godfry tea. News

[1] 'Posthumous Works', p. 402.
[2] Cutler's da. Elizabeth married Ch. Bodville Robarts, Earl of Radnor, without her father's consent. They made it up two days before his death.

that the African Company would repair cellar, with the rent. Met Kettredg at Childs: he had Dr Burnets leave for account to be given of his book: he promisd to present me with one of them. At Marshall, he undertook to sink a plate 3 foot over; home. At Jon. Lod, Spen, Mart, Ashb, Meverell o.

Good Fryday. 14. With HH to Lambeth. At Coffe spak with Cox and Hill. I deliverd 4 Bills of Hayward to Cox, i. e. house, greenhouse and brewhouse and Day Bill. Viewd Hills vault etc. returnd. HH tea: lent him account of Sicilian Earthquake. DH. At Jon. G, C, Pif, Foot o. Lake from Westminst. Wanklin was right. to treasurer Thursday next. Candles and sope 16d. At MF Bunnell strangely wasted. Cave choco. pd. to Hally 9d for *Scripta of Mathesius*. At Jon. Gof, Mart, Cur, Spen, Ashb, Waller, Hally.

Sat. 15. n o. queried about *Mathesius*. DH. Mm. br. 4d. At Jon. Gof, Lod, Foot, Pif: chat Hally. Lod here tea. In MF with Lod o. I receiud of Horn and Southby 1 G ⊙ for 1 quarter ending last Lady Day. At Jon. Pif, Foot positively affirm Sr J. Cutler to have dyed this morning.

Sun. 16. n o DH. M. Westm[inster]. Sr J. Cutlers death confirmd, to be the 15th at 5 in the morning. Ld Radnor and Lady reconcild before his Death. At Jon. Gof, Lod, Spen, Ashb, Mart, Houton, Waller. Slpp, and Harlems o. home with Waller.

Mu. 17. I returnd Sands his *Ovid*: to Mr Waller with Pif to Sr Levet, out: met Ld Bish. of London but I knew him not till past. Dr Cox abroad.[1] S. Smith removing into Martins shop. DH. At Jon. Gof, Lod, Foot, Vincent. Cliffords and Locks book *Reason*. Walk in MF wth Gof: pd 8d for the *Woemans booke*.[2] At home, Gof, J. Mayor tea: of Bishop of Ossory: Jones for Inscript.[3] At Jon. Lod, Spen, Waller, Mart o.

Tu. 18 (57¾). Spake with Sr R. Levet. Spake to Mr Normansell there: they were going to open the Will of Sr. J. Cutler at Mr Bolters: cald on Cramer. I left Arbuthnots paper with a young man in the shop: bespoke of Tompion wheel for logarithm Compasse. At Pifs o. DH. Baker told me Sr J. Cutlers will was opened: 3000 per an[num] to Ld Radnor. At Jon. Gof, Foot, Pif: Harlems post o.

Wensd. [*19*]. Mm. ch. 9. Rain. DH. At Jon. Pif, L, Foot o. At home, Lod and Mayor tea. Sr J. Cutler sayd to have left 6000 per an. to Lord Radnor and 100000 in money, 50000 to E. Bolter and 17000 to Legacy, 1000 to St Barthomews hosp. Lookd over originall papers.

Th. 20. Saw Cuttler of Dr Tisons: with Mart. coach to Dr Birch. To Warrs, out: at Vigars wit against C. Spake with Dr Birch in cloyster. D. with Dr Busby. Dr Williams.[4] View Abby, 2 ribs

[1] Dr. D. Cox, F.R.S. 1664.
[2] Possibly 'Mundus Muliebris, the Ladies' Dressing Room unlocked'. Nov. 1690.
[3] Inscription for statue to Aske at Hoxton.
[4] Perhaps John Williams, D.D., 1636–1709, Prebend of St. Paul's.

defective to be repaird: lead roof, etc. At Jon. Pif told me of Normansell and of Cutlers will. Spen, Ashb, Lod, Pagg, Cur: E[ast] I[ndia] Stock 115.

Fry. 21. n o. DH. At Jon. Lod, Foot, Pif o. Gof at Shakilwell. Slpp. At Mrs Moors, Mrs Norm tea: Witty, fat. At Jon. Spen, Vin, Ashby, Pif, Mart: Astrol. Lilly:[1] chat: 4 Amsterdam ships arrived. Still rainy.

Sat. 22. Rainy. Spak with Sr R. Southwell at Custome house. DH. Saw Holts house demolish. At Jon. Lod and Foot and Pagg: Harlems. no pp. Weygh sand, clay, alabaster, stone for Sr R. Southwell. At Jon. Chancy and Allen about inscrip[tion for statue of Aske]. Hen, Spen, Ashb, Lod, Vincent, Cur o. Mm. 28d.

Sun. 23. Rainy day. n o DH. At Jon. Gof, Lod, Spen, Morton, Marlow, Wych o. N. Young and daughter. Still Rain.

Mun. 24. Swarbrek calld about Lambet Church: to Caillou and Behagels o. Saw module of Winchester house at Sr Christoph Wrens. J. Scarb. at Mans with him, he knew not Ld Radnor. . . . nor help. I told him of Logarithm line and map. Recd a map of line and shipright proposalls. At Jon. Lod, Foot, Pif, he lent me Perraults[2] *Parallel of Antients and Modernes*: talkt with Ranalahs[3] tall

[1] Lilly the astrologer.
[2] 'Parallèle de l'architecture antique avec le moderne', by C. Errard, Paris 1702.
[3] ?Richard Jones, first Earl of Ranelagh, paymaster-general 1691–1702.

Wood, 60 years old in Jan. next, born in the great snow, his son in the greatest frost. At Jon. L, Spen, Mev, Vincent: chat: pretty fair day. Meet Sr P. Dan[iel] about accounts Wensday next.

Tue. 25. Rain. n o DH. Jones carver. At Jon. Foot, Lod, Gof: Harlems. Stayd 2 howers at Virgines Coffe house with Bayly, Draper, Williams. Sr R. Levet came not as he at Jon. Lod, Spenc, Martin, Meverell o.

Wed. 26. Rain. Spake with Sr R. Levet he promisd all assistance about Mr Boulter.[1] DH. Borrowd *Boysardus*.[2] At Jon. Lod, Pif. At Hab. Hall: Chancy, Sr T. Vernon, P. Daniell, R. Levet, Steel, Barron, Littleberry, Allen, Farindon etc. wranglings. At Royal Society: shewd Libella of gnat in my microscope, Muscles in ye Corall of Repository. Sr R. Southwell spake frendly. Mm. 2. 4d. At Jon. Dr Woodrof,[3] Vincent, 3 strangers, Ashby, Lod, Meverel, Waller, Houton: Turris Beli[4], Porsenna, Arab Library, Learning Antient modern, Pythag. Aristot. etc. Much rain.

Th. 27. Taxman for 18sh. for the new tax of this year. I desired time to appeale: Wood not paid but 12. I returnd *Perraults* 2 vol. to Pif. Spake with Waller, saw his Cuttle draughts. Mrs Moor lookd very ill. DH. At Jon. Lod, Gof, Foot, Pif: chat.

[1] Sir J. Cutler's legatee and executor, see Apr. 19 and May 20. Cutler had been four times master-warden of the Grocers' Company.

[2] J. J. Boissardus.

[3] Benj. Woodrofe, D.D., of Westminster and Christ Church. F.R.S. 1668.

[4] A. Kircher, 'Turris Babel', 1679.

Wrote out for Mr Waller account of Fips pendulums: very heavy hearted I deliverd it to Mr Waller. Received a letter from Sr R. Southwell wth Mr Dummers designes for flood-Gates. At Jon. Lod, Waller, Ashb, Mart, Mev, Vincent o.

Fry. 28. Wrot objections on Mr Dummers proposalls: Deliverd them to Sr R. Southwell at the Custom house. DH. At Jon. Lod, Foot, Gof: chat. Saw *transact*, at Mr Godfrys. Calld at S. Smiths: I told him of 16 dozen *transactions* and 2 sing. he answerd twas impossible, and Society seeking to designe to cheat me. With Gof to Hoxton. Some raine. Gof here tea. At Jon. Spen, Lod, Waller, Hain, Ashby: Letter of storm March the 20. Candle and sop 13d, n.p. Warm dry day till 6 p.p., then some rain. Strange frightfull dream of Lambeth house.

Sat. 29. I drew form for timber contract for Sr R. Southwell. DH. At Jon. G, Lod, Foot, Pif, Waller, Blakwell. n o. at Jon. Waller, Lod, Sp, Ash, Mart, Hoskins, Pagin. Hublon[1] about view of his house. Susan break alterpeece. Goldsmith killd by highwayman: other roberys. Mm. 2. 8. Some rain later.

Sun. 30. Q.M. birthday 1662. DH. M. St Peters. Jon. Ash, Spen, G, L, Mart, Hout, stranger o. pretty fair, Wind N.

[1] Sir John Houblon, first governor of Bank of England, 1694.

May

Mu. 1. Mayday. Cold north W. At Hublon in Sithg Lane view o. At Birds Ald. Berry and Basing, Shaw, view o. Young Wells, Ld Mayrs attorny, dead. the 'Windsor Castle' lost on the Goodwin. DH. At Jon. I writ to Sr Chr. Wren for Swarbrek. Gof, Lod, Foot, Pif, Hally o: Astrol. letter, nonsense. Chees 7d. At Jon. Lod, Ashb, Spen. Vincent impudent and abusive.

Tue. 2. At Custom house gave Sr R. Southwell Designe of sluse and contract for timber: he told me of Lord Radnor: shy, reservd, sap. Paid new tax 18 sh. as for 300℔ stock. Lane paid but 6, Woodrof 12, Stiles 18, Perry o. DH. At Jon. Pif, Lod and Foot. Lod recipe for stomack wormes: ℞ the outmost rind of Sevill oranges: dry them well, powder them fine and then take as much as will lye on a 6-pence: it hath produced wonderfull effects for freeing the stomack from worme by throwing them out by vomit. no pp. At Jon. Ash, Lod, Spen, Vin o. br. 6d.

Weds. 3. Letter and draught of Dyck gates from Sr R. Southwell. Direct HH about module for Sluse. Mm. 2. 2. DH. Mercator. At Jon. Foot, Lod, Pif o. Royal Society met: Ld. Barkley and Hamborow President present: Smith and Walford sworn printers. A nonsensicall hypot: of Flamsted about Ear[th]quakes in the air: Wallers letter to Norzary. At Jon. Hosk, Pif, Wall, Blackwell, Hally: chat: *Vossius Epistles* presented by Smith and Walford. Parlt. p[rorogued] to Sep. 19.

Thu. 4. Halton out: Tompion had done o. At Caillou and Behagells o. Spake with Sr Chr. Wren and J. Scarb[oro], then met J. Mayor: then Jones carver: to Westm. met Needham. Lake o. At Vigars o. Dind with Dr Busby. Talk and recd papers about Lutton: about Tuttle Wall: and viewd Henry 7 chapel, Abby butteress, mend key, viewd chimny in little Cloyster, and Dr de Longlys[1]; order Coll to mend them. From J. G. 18d. To Jon. Pif, Lod, Gof, Spen, Ashb, Mev, Nev, Vincent, Cur o. Of Brown by Temple Bar Bacons *Specula mathematica.* Severall to hear lecture: HH answerd them.

Fry. 5. 2 ||||. View in Leaden hall street, Axe Ally 10s. DH. At Jon. Foot, Lod, Gof. Met Sr R. Levet about Hab[erdashers] Hosp[ital] workm[en]. With Mr Gof walk to Balmas, at h[ome]tea. at Jon. Gof, Lod, Spen, Ashb. Very fair.

Sat. 6. At Hublons View 1 G⊙. I paid J. Oliv. for yesterdays View 10. Viewed it again with J. O. I drew Report at Jonathans, we both signed it. I paid Upholster at Kings head Bish-gate Street 22 sh. for pole tax, it being the 4th payment; the Beedle and another man was present in his own shop: he crost his book with Red chalk or lead. DH. At Jon. Pif, Lod, Gof, Cap Paggin. Lod here read Le Cros of Gravity, Springs etc: nonsense. J. Mayor: that Bolter only was lyable. Tea. At Jon. Hoskins about fire engin: Ashb, Spen, Lod, Foot and petrifyd City neer Tripolis. Bread 1s.

1 Dr. Sam de L'Angle, prebend of Westminster, died June 20, 1693.

Sun. 7. n o DH. Waller red *Archæolo.* At Jon. Waller, Tison, Gof, Spen, Mart, Ashb, Houton o. Sugar. 7 Egg.

M. 8. purg. Mr Fog here. Wrote lecture. DH. At Jon. Pif, Wall, Blackw, Lod, Gof, Hally, Hain: the Grand Vizier strangled. From Mr Holt 5 ⊙ G.: with him to Mark Lane, his front 49.4; bredth of Street at North end, 24 foot cleer: viewd Mr Fogs foundation, very rotten and dangerous, 5s. Deliverd Report of tarrd[?] house in Axe yard[1]. At Ld Mayor. Calld at Crugers: lecture, then Jon o.

Tu. 9. No lecture. DH. At Jon. Pif about Bolter, then take Tufnell draft of Window: another demanded 2½ stone, 16 s[u]perficiall. Then Gof from Greenwich. Saw a whole Cuttlefish at HH: I told Waller of it. More out Lect[ure]. at Jon. Sam. Foot shewd a design of Italian house. I promisd to send him Swarbrek for modul. Ashb, Spen, Cur for tea. Mart, Meverell o. Took aloes: slept ill.

W. 10. Fast, Disturbd, n o till 3. At Jon. Gof o. At home till 8. At Jon o. Waller here, and at Jon.

Th. 11. N o. DH, purgd. I read Lect[ure] to 8 auditors and 40 children. Royal Society met: HH module of sluce. Letters from Cole, Lister, Amsterdammer etc: cuttle fish; Shimmy etc; Gyant Causway etc. At Jon. G, L, Vincent, Houton, Meverel, Spencer: chat. Michael to meet Chancy and Daniell at 11. At Jon. Mm. 1s, cock 1s. Williams graved tobacco box.

[1] It may be remembered that Pepys live in Axe Yard, which was named from the sign of the 'Axe' in King Street, close by.

Fryd. 12. Mr Moor cald. At Marshalls saw great Concave 20 inch diam. Sr R. Southw. had read *Lamps*,[1] but not paid for them. Saw fals and true Spectacl there.[2] At S. S[miths] new shop o. At Mr Moors: out. Rd. from Nicks 10s for Ald. Berry View. DH. At Jon. Pif, Lod, Gof, Foot o. At Mr Moors about Fleet Wall: At Fleet, Viewd wall fallen: Hartly and Sr J. Moor concernd: noe order nor Report o. At Tompion, met Mr Masters: Loadstone from New Spain buccaneers. Tompion began Curv. wheel Ring. At Jon. Gof, Lod, Spen, Cur: Chancy and Sr P. Daniell for Tuesday. Fools Paradise Mm. At Mr Moor about Fleet view, and Bolter.

Sat. 13. Jones and Mr Moor here. Mm. Woodward read, 4 audit[ors]. At Sr R. Levet, spake with him about Bolter, he promised me to Discours him. At Dr Gales met with him and Hill and Pagit; he complaind of Momford, was off of Living. Hill and he to Mr Pep[ys]. At Jon. Pif, Lod, Gof, Waller. Order about Fleet view. I gave Jones the inscript for Ask Stat[ue]. DH. To Caillous, Behagels o. At Hooks French auction met Bouchart. Took at S. Smith *Acta* of Nov. Dec. 92 and *1st Suplemt* with Jan. 93; left a note of Receipt. At Jon. Lod, Gof, Spen, Pif o. Mm. 2.8. Fair, very cold.

Sun. 14. DH. M. Westm[inster] Dr Dove.[3] At Jon. Gof, Lod, Spen, Cur, Sherman o: Sp[ake] Duke.

[1] Hooke's 'Lampas'. [2] At the optician Marshall's.
[3] Dr. Henry Dove, chaplain to William III, died in 1695.

Mun. 15. n o. Fleet carpenters had cald, also Duke. Jones brought inscription paper. Wrote Lecture. DH. At Jon. Gof, Lod, Foot: dispute of Constitution. I cald at Tierens, he promised translate lett. At Jon. Spencer, Martin, Waller. I spoke with Mr Moor about Fleet Wall. With Chancy about Hab[erdashers] accounts: in lower cellar. Sham Shaws.

Tu. 16. I sent *Chauvins Lexicon Philosoph*[1] to Mr Waller by Mary. Officer here about Fleet. I cald on Waller going to No Hall. Spake wth Mr Moor about Shark bricklayer. DH. I returnd the 4 *Acta*, I borrowd the 13, and recd 4 direct. to Royal Society. At Jon. Gof, Lod, Foot, Pif, Hally, Jed: chat. At H, then to Caillous: pd. 6d for *Oeuvrage de Scavans*: pd. Brown 6d for R. Bacons *Specula Mathematica*. Calld at Tompions: draught of Q. Marys clock. At Hooks auction o. Saw Doylys pictures: he gave me some powder he knew not. Mrs Tiler and her son here. Mary out for flax. At Jon. Gof, Lod, Spen, Cur, Mev, Ashb o. Very cold and clear evening.

Wed. 17. Carver Jones here. I recd translate[d] letter from Mr Tierens. Cald at Clothwork Hall o. At Fleet J. Oliver and Mr Moor o. Winter hanged. DH. At Jon. Gof, Lod, Pif, Foot. Mm. 2s. Royal Society met: chat o: Sr R. Southwell his modul of Sluse. At Jon. Hosk, Hally, Vincent, Lod. I met Weight and James: very fair.

[1] 'Lexicon rationale sive thesaurus philosophicus', 1692.

Th. 18. n o till 10. Noe auditors. Johnson glasier said R. Giles to be dead 3 months. Spak wth Sr R. Levet, he told me Bolter would pay me. DH. At Jon. Gof, Foot, Pif o. Noe auditors. I cald at Mr Moors. At Jon.: borrowd of Williams *Prestet.* At Jon. Gof, Pif, Mev, Cur, Spen o. Bread 6d. 2 men and 2 little boys, 1 old man.

Fry. 19. Spake with Sr R. Levet about Bolter: Normansel there. Measurd for Birdet in Leaden H[all] hearb Market, Williams's addition and Spread Eagle Passage 10s. thinn cheese: ship. At Jon. Pif, Lod, Gof: Harlems. Gr. Vizier Festardar[1] and dead. Mr Hooke invited me to dine next Wensday. DH. With Mr Moor to Bolter, he at Westm: soe also at 7. At Jon. Mr Brotherton of Grays Inne for a View there next Munday. Fright sweat. M. cand[les] 10d, sop. 2. Williamso: in Newgate.

Sat. 20. With Mr Moor to Mr Bolter, met him at his Door; he sayd he would consider of it soe soone as some other Acc. were past with Ld Radnor, to whom he was going, that he knew of it, and had payd me the last 200 ℔. Mr Moor spake for Mrs Kettle. HH tea. Flat iron wire from HH. Mm. 2. 8d. I gave M. Graces hood.[2] In MF o. DH. At Jon. Lod, Pif, Foot, Cap. Pag[gin] and Mr Wolf spoke about quarter tax. I paid Morden for 2 Brest map. 1s; left it at Cap. Paggin: to Behagel pd. 6d for *Ouvrage de Scavans*: took for Mr Pitfeild

[1] ? Hospodar of Moldavia.
[2] Grace Hooke, his niece, who died 1687.

Traite des moyens de rendre les Rivieres navigables, at 4s. n p. at Jon. Pif, Ashb, Spen, Lod o. I met Scot,[1] who told me Carbonell and he had receivd from Pits a charge on me of 400℔ which he had sayd I owe him: whereas he ows me above 500℔. I acquainted Mr Moor with it, he sayd he would secure me against his claim for a dish of Coffe. I talkd with Mrs Moor and Mr Pitfield.

Sun. 21. n o N. Young, that Giles left widdow well, her cozen coming up: other chat. DH. M. St. Pet. At Jon. Mr Day from Bristow: remembranc from Mr Cole now at Bristow. Mr Brown, Ashb, Spen, Lod, Martin: new Declarations dispersed.[2]

Mu. 22. Great showers mane. Jones with Asks statue inscript. I read French book, *Traite des moyens de Rendre les Rivieres navigables*: short but good. Caried it to Mr Pitfeild who is to pay Behagell 4s for it. Tea. 3 dishes. Mrs Pifs fine chambr and closet. Viewed and directed Woodward for low roomes: to raise a floor and new work of Window's. DH. at Jon. Post: Heydelburg surprised by the French.[3] Lod, Pag, Pif, Hally. Viewd roof in Grays Inne for Mr Brotherton. 1 G ⊙. At Jon. Cur cock a hoop, Spen, Ashb, Mart. Fair hot.

Tu. 23. At Tompions o. At Caillou and Beha-

[1] ?Robert Scot, of Little Britain, 'the greatest librarian in Europe'. For his contract with Mills of St. Paul's Churchyard see Rog. North, *Life of Dr. J. North*, 1744.
[2] Declarations of James II.
[3] Under General De Lorges.

gel o. Sick of pleurisy. With Sr Chr. Wren at Mans. At Jon. Lod, Foot, Cur o. Hally Craigs Booke: home, J. Mayor tea: noe news. DH. Left Hally Crags book. In MF o. To fob 15s. At Jon, Lod, Ashby, Spen, Mev.

Wen. 24. Mr Parsons sent a messenger to desire me to View Alhallows Barking Church. I met there the minister, churchwardens and Vestry. I found beams, plates, corbells all very much rotted. Informd it necessary to be repaird forthwith. 20s. At Arbuthnots cheesmonger in Newgate Street o. At S. Smiths o. DH. At Jon. Lod, Pif, o. Royal Society met: Sr A. King and Mr Evelin; little produced but talk: Mr Henshaw sayd Sr S. Moreland was blind. At Jon. Hosk, Lod, Hally: chat, Pif, with J. Gee from Dr Busby. P. Hublon: of tryall in K. B. agt Holt [brother of Sir John Holt].

Th. 35 [*sic*]. HH tea. Saw Mr Stiles *Ravenscroft* and curious Cabinet: to Sr Chr. Wr o. At Vigars o. At Dr Busbys, dind with him; spoke with Needham he told me of Chapter, and their resolve of Dr Birch his Noyse. View Cloyster house and direct sink etc. Set out Tuttle Wall, and agreed with Collins. Viewd Abby Window and considerd of its Repair. Coach hire 2s. Paid at Behagell 3s. for *Voyage en divers estats de l'Europe et D'asie.* Rain thunder and lightning. Hosk and Hally at Smiths. At Jon. all gon but Mev and Mart.

Fr. 26. To Dr Birch, expostulated with him, he told me of Oliver and Sr Chr. Wren against timber

window. I told him of Repair and taking down battlement and brick up Gable-end which he approved. Gregory about fir lath already cutt. DH. Doors open at Jon. Pif, Lod, Foot, Sibelius and Gof. Mr Woolf told me Hedges was my enemy, voted at 200: read *Voyage of Tartary*. At Jon. Pif, Lod, Gof, Spen, Ashb, Vinc, Mart, Sibel. I deliverd *Perralt* 4 vol.: *Witsens Tartary*: Leuwenhoeks books: Bechers. Williams. Hott day. I cald at Kit Cock: his sons collect. of Drawings.

Sat. 27. Mr Waller and Dr Sibelius tea. I had W. Pinkars Letter and *Transact.* To fob 20s. [In] Ch. 2 [of] *Woodward* read of petrifyd Echinus. T. Robinson. DH. At Jon. Pif, Wall, Gof, Lod, Foot o. Throo MF. At S. Smiths o. talkt wth Dean Baynard of Dr Holt. Spake w[i]th Dr Blacburne at Jon. then Lod, Gof, Spen, Ashb, Mart: all well at Jamaica. Spake with Sr R. Levet about Mr Bolter, etc. Weitman Founder Buried. Br. 6,–$\frac{1}{7}$.

Sun. 28. N o. DH. M. St Peter. Jon. post confirm[ation] of los of Hydelburg. Gof, Lod, Ashb, Spen, Mart.

Mun. 29. N o. Wrote lect. DH. By water to Westminster: spake with Mr Needham, he told me Dr Birch had fully satisfyd the chapter this morning: tea with Dr Busby, he told me of a Mathemat. teacher: his sink in making. I orderd Lake to take down window Battlements, and lay them on lower leads. Collins askd 5sh. per yard for finish plaister of Plymouth lime. Spake wth Mr Knipe,[1] and with

[1] Succeeded Busby as Headmaster at Westminster.

Mr Chitter our taxman. Behagel died last Fryday and buried yesterday. At Jon. Pif, Lod, Gof, Spen, Cur, Ashb, Hain, Hally. Man about Fleet Wall. Chee[se] 3d. I calld on Vere for coles.

Tu. 30. N o. DH. Macc[ass]ar. at Jon. Gof, Lod, Pif, Hain: one with a letter from Carbonell and Hains, about Pit. I spake with Mr Moor, he promisd to goe to Carb. to morrow Morn. At HH. talk of Pits: Arbuthnot[1] presented me with Cragys book. To Jon. Gof, L, Ashb, Cur, Mev, Martin till 10.

We. 31. With Mr Moor to Carbonell about his letter: he was gon abroad, but we spake with his son. M. Moor presently told him of the *Atlas* deliverd to Gardner. Cave M. Sat with Mrs Moor, sick of a cold. DH. Advisd her to Old Chees. At Jon. Gof, Lod. Walk with Gof between 11 and 1. Royal Society met: Sr R. Southwell Mr Southw, Sr J. Hosk, Hill, Slon, Mills, Harewood, Creed, Lod, Pif, Hally, Vincent. Read my Lecture of Phaeton. Praesident pleasd an Expt[?] At Jon. Hosk, Houton, Lod, Hain, Pif, Vincent. Dr Savage white lead much used to fix sandover of christall glasse: Mm. 2s. Fair, hot.

June

Thu. 1. At Mr Moors. With HH. Recd. from Chamber 25℔, of which 10 Lewidores at 17. 6: gave seller 5s: pd. 3s at Sr R. Levets for 2 lb. tobac.

[1] Dr. Arbuthnot was chosen by Halley to act as Clerk to the R.S. during his absence in 1698.

Sr L. Robinson spake of Hospitall. DH. At Jon. Gof, Hain, Hally, Cur o.: heard Mr Holt of Ironmonger Lane dyed at 10 last night. With Roger Davys at Childs, talkd with Marshall glasgrind[ing]. At S. Smiths, met Sr J. Kings son. At Mrs Mores; advisd port-wine and water simperd. Mr More promisd to speak with Carbonell. Read *Rawolf*. At Jon. Gof, Lod (about one of Amoy query?), Cur, Pif, Mev.

Fry. 2. M. chees 3. Hat blew in Kennell. Spake with Ald. Chamb. at Jeremys about Chinese. Calld at Doogoods: out. At Jon. Gof, Lod, I walkt with them to Kingsland, Mr King there. Doogood demandes 2½ per yard for repairing and plaistering stone wall with Plymouth or Shell lime. In MF pd. 5d. for Van Berlicon *of the Longitude.*[1] Lod here tea. At Jon. Gof, Lod, Ashb, Mart, Meverel. Mr Pif to Norfolk. Mary swelld face. Burnt [s . .] sack.

Sat. 3. HH tea. Bread 6, Sm. 2s. M's face down. To Mr Moor, tea with Mrs Moor. Sr R. Levet out. I had sheet G of Crags book of S.S[mith]. DH. At Jon, Gof, Lod. To Westm: battlemts taken down, doors put up. At Vigars Coff o. Spake with Bp Rochester. Cold. Dr Busby out. Dr Barwick[2] there, J. Gee sick. I calld at Mr Pepys very kind, his kinsman vol. At Callious o. At Jon. Gof, Lod, Paggin. Huniades much talk of inventions. Mar[y] swelld jaw: very ill.

[1] Andreas van Berlicom wrote 'Elementorum de rerum nat. gravitate', 1656.
[2] Peter Barwick, M.D. See *D.N.B.*

Sun. 4. N o DH. M. ill, worse. At Jon. Ashb. Lod, Gof, Mart.

M. 5. Rog. Davis here about Dr Busbys church. DH. HH tea. Susan with M[ary] Wrote Lecture. At Jon. Lo, Go; Gazet o: both here at 5 6 7. Tea. M. imposthum broke. Sent pp. lettr to H. Hayward for Lamb Fryda[y]. At Jon. Ashb, Gof, Lod o. A shower at 9 pp. D.G.

Tues. 6. n o. Wrot Lectr. DH. At Jon. Gof, Lod. Mr Moor at 3: with Mrs Moor he had spoke with Carbonell, he appointed him tomorrow at 4 to shew Pitts prætence, of Fleet Wall. Sat with Mrs Moor yet ill: Marlow there. With Ald. Chamberl. at Jeremys about Chinese. One Mr Littleton of Bay Bengale concerning passage from thence to Pekin. Sr R. Levet out. I calld on Gof. To Jon. Lod, Ashby, Stewart letter from Carolina. Spencer, Pagg, Wych: of stiller drawing 1 gallon of Spirit in a minute brewing 30 quarters of malt in every day. NB. 3 psalm. M. little Coz from Jamaica.

Weds. 7. Sr J. Wildman dead.[1] J. Mayor here. Spake with Sr R. Levet, he sayd he had again spoken to Mr Bolter, that he would shortly consider of it. DH. At Jeremys Sr J. Hoskins and Flamsted, of Mr Townly, etc. Hally shewd him an account about his mother in Law. at Pontack Mr Henshaw, Sr J. Hosk sayd he had Pits his security, remembred somewhat of my bond: At Jon. I, Mr

[1] Politician.

Gof and Mr Lod witnessed Mr Hallys Will. NB. 4s. Payd Mr Hally 9d for Dutch minerall press. I put up 4 lb. of Baylys tea in squar can. and 3 lb. in the flatter canist[er]. Mr Moor gon to meet Carbonell. Susan mark[et] 2. 4d.

Th. 8. At Mr Moors, but he wold not goe on View till pp. I wrote a short state of my case and gave it to Sr R. Southwell at Custom house. DH. At Jon, Gof: Gazet, Martinico, Gadelupe taken. Gof here tea: he promisd to speak to Mr Morris for celler. Nurse Clark: from Redburn. New Catal. of Auction at Rolles. I spake with Mr Moor: met Hab. Chancey; saw Sr P. Dan. At Jon. Mayor calld for my Letter: troubled. Hally gon for Tooth rack [or work]. At Jon. Ashby, Spencer, Mever, Wych.

Fry. 9. Spake with Mr Moor o. to H Haywards at Beuley. Spake with Mr Cox at Lambeth. Tea. Walk back. At Jon. Lod, Gof, Foot, Paggin, Wager. DH. Calld at Mr Moor, not yet ready. At Auction Petty Cannons; viewd *Martinius, Gesner, Kircher,* etc. At Jon. Gof, Lod, Spen, Ashb, Wich, Pagg: Kings Declaration burlesq[ud]: printer condemnd of High treason: also Ballet Singer find 200℔ and Pillory.

Sat. 10. I deliuerd to HH for Sr R. Southwell Ld Hales 3 Vols. *De anima,* and Mr Dummers[1] draught of Sluce gates; To Dr Birch at Johnsons Coffe house: he approved imploying Doogood for plaistering Abby Gable end. At Abby I direct Tufnell and smith for 4 cramps to hold North win-

[1] Dummer designed ships for Pepys.

dow and bear flower. I dind with Dr Busby and Matier, pp. 5 br. p. ⊙. I viewd Cloyster house about joice in NE corn[er]. In Museum wth Dr and M, I contrivd sliders for small books. Discoursd with Dr Dove of Lutton church. I mention'd a Vault: Dr desired me to goe to Welling with Mr Needham. At Callious, transcribd contents of 4 Academy French books. Much rain, shelterd at Mr Degel corner. At Jon. Mont, Spen, Joy, Pagg, Talbot: chat: forgot ∞ [spectacles], followd me. 18d return.

Sun. 11. Barnaby. Longest Day. N o DH, M. n o. At Jon. Ashb, Wich, Gof, very fair and very hot. Cramer. One calling himself Henry Lewis Nagell would walk by me to Temple, he said he writ. 'Nosce teipsum'. NB. A cheating quack.

Mun. 12. N o. till 11. MF o. At Auction, no use; view books. DH. Mm. 1s. At Jon. Gof, Houton o. Met in Jo. Cox for Lambeth Sat next. At Millers *Bibliotheca Croneran.* At aux., small. Expr: Recd. a lett[er] from Mr Waller.

Tu. 13. Spake with Sr R. Southwell at Custom house, o done. Met Baylys carpenter Fishstreet, advised covering summer house. Dr Gale at Dinner. DH. At Jon, Gof, Lod, Foot: Harlems. Tufnell about W[estminste]r Gable-end. I spak with Dr Gale about *Mankenius.* I walkt to Hoxton with Gof, met Bolter; Gof h. tea. At Jon. Gof, Lod, Pag, Spen, Ash, Mart, Mev: chat.

Wen. 14. Monthly Fast, n o. Mm. 2. DH. At Jon o. Wrote Lect. To Jon. at 6, Lod, Mart, Ashb, Spen, Gof, Mev, Cur: 40 Saile arrived from Portugall. With Mr More: visit Mrs Moor not recoverd yet Mr Due. *Bonticos tea* Paralytic, N.B.

Th. 15. N o. M. n. 5d. Swarbrek. Chocol. Lect. DH. Spak with Mr Moor and with Houton for him: met Povy and Firmin at Jeremys. At Jon. Lod: Gazet: Houton, story of Great Haile at [ ]. Met Mr Crose[1] of Oxford, as hail as 30 years since. Society not come at 5½. At Hooks Auction I bough 8 authours. At Jon. Rev. Williams shew Earthquake Curer. Ma? to fob. 15s.

Fry. 16. At Mr Moor ab^t Halton. Cald at Tompion, saw K and Q. clocks. At Callious o. At Jonsons Dr Birch with Sr C. Wren at Mans. Heard of Dr. Aglionby.[2] Sr C. W. approvd Shell lime: vide Pauls. Dind with Dr. B[usby] Bulloc, Matier. With Tufn. and Greg up at window, o. done smith abroad: view Collins Wall in Tuttle Hospitall Howlet: estimated plummer and carprs bills at Cloyster house. At Auct. pd Mr Hooke 6s for *Kircheri Combinatoria*,[3] etc. At Jon. Gof, Lod, Ashb, Spenc, Vincent, Cur o. Dr Delangly dead.[4]

Sat. 17. One about Fleet Wall. W^th HH to H Hayward and Lambeth: spake with Mr Cox at

[1] Crosse, the apothecary in the High Street where Hooke and Boyle made the air pump.
[2] Sent as ambassador to Savoy on May 25 (Luttrell).
[3] A. Kircher, 'Polygraphia nova . . . ex combinatoria arte detecta', Roma, 1663.
[4] Prebend of Westminster.

the Coffe house: weary back. Mm. 2.3. At Jon. Gof, Lod: post o. DH. Mr Moor abt Fleet Wall. At Hooks auction o. paid him 3.2. for *Pandulphus* and *Collovinus*. Mist Oliver at Shaws: Fulk and Longland plaister[ers] in Paules. At Jon. Lod, Mart, Spen. One from Fleet. A Letter from S. Smith for 13 of my *transactions*.

Sun. 18. Head ake: n o DH. pp. better. At Jo. Ash, Lod, Gof, Mart, Spen, Brown, Houton: his paper of hail. HH tea. Swedish Coyns book.

Mun. 19. HH tea. Mr Moor 2 hear about Fleet, also the Fleet carpenter. I calld at Fethers: J. Oliver at Vxbrid[ge ?]. I [dined with ?] Dr Gale: he read Packers letter and January *Acta*. I payd Mr Hook for *Martinus China* 20½ shillings[1], for *Gesner* 13½s, for *Zuingers* 2. 2d, for *Pitiscus tables* 1s, for *Reticus* 2. 6d, for *Bulliald Spiral.* 7d; in all 40. 3d. Dr Gale lent me Italian astronomicall papers. DH. at Jon. Gof, Lod. Mr Moor calld. I went to the Fleet, met there Mr Moor: I advised the setting 2 shores, and bringing up a 2 brick wall 3 foot, then 7½ 3 foot, then the rest 1 brick. Mr Moor approved of it, if the warders would be content. At Millingtons auction books sold most extravagantly deer. At Jon. I first saw the Skeleton of a first rate ship at Exchange, and taudry hangings at outropers.

Tues. 20. To Sr Chr. Wren, then to the chapter at Westminster. I stayd expecting mason and

[1] Martinus Martini, 'Bellum Tartaricum or Conquest of China', 1654.

carp[enter] to confront: the face of them changd. Rochester shy, Orles malapert, Birch sly; I spoke to Sr Chr. Wren. Busby cool. D[ined] with D[r] B[usby] at end. At Aux o. At Jon. chat: Spen, Lod, Ashb, Cur, Houton, Meverell. Hot day. Johnson and Crouch called. Mr Pitfeild returnd. All at supper. Met rasc. Pit.

Wens. 21. At Sr Chr. Wrens by 7. Spake with Tompion. Recd a letter from Dr Gale for Menkenius. Mm. 2.2d. DH. At Jon. Pif, Lod, Foot. Royal Society: present, Slone, Herb, Hill, Hosk, Vinc, Perry, Bemde, Herbert, Houton, etc.: 2 Botanist: minutes and letters read: talk of plants. At Jon. Hosk, Torryan, Pif, Houton, Vinc, botanists: chat. I met Bolter at Bow; spak kindly. Sr R. Southw. sayd Mr Booth was also of Ld Radnor: Parson Garret with Torreano. At Mrs Moors. Talk of Fleet. Rain at 6 pp.

Th. 22. To Sr C. Wren he viewd [Westminster] Abby North Gable, approvd bricking up. On Wharf in Qs. new chap. at Vigors DH. at Jon. Pif, Lod, Gof, Wall, Pagg, Blackwell. I read to Mordant and two others [for] ½ hour: home till 8. At Jon. Ashb, Spen, Lod, Gof, Cur, Mart, Mev, Aston: Sr J. Ashby dead at sea: Wagers abt fleet. Met Crouch in the Strand. Severall showers.

Fry. 23. n o DH. at Jon. Wall, Pif, Blackwell, Gof, Lod, Pag: Petrifactions from Waller. n o pp. At Jon. Ashb, Lod, Gof, Spen, Cur, Pif, Mart, Meverell: Losse of Turky fleet feard to consternation.

Sat. [*24*]. *St John's Day*. o Crowch nor Jonson. Mm. 23, bread 3d. broom 3d. translated *Prestet*. DH. at Jon. Gof, Lod o: home, *Prestet*. Jon. Post: French fleet said to be in Lisbon: Turky fleet not known where: Gof, Lod, Ashb, Spen, Colson, William, Mr Wild. Leak dead long since. French river north of Narbon, Carcason and Thoulose, it enters the Garron that runs by Burgdeaux there.

S. 25. n o DH. at St. Peters. Jon. Ashb, Gof, Houton o.

M. 26. Rain a little. Lost *transaction* plait. HH tea. Lent Mr S. Smith 5 of my *Transactions*, which I am to repay. Crouch here from Brading o br. 6. Mr Woodwards thieving boy in Newgate. DH. at Jon. Gof, Lod, Sinclar. H. Hayward Thursday morn to Lambeth. n o. pp. One cald from De son. at Jon G, L, Sp, Mart, Ashby, Pif: noe news of Turky fleet. Mist *transaction* plate. Transcribe *Prestet* preface.

Tu. 27. I deliverd the 5 *Transactions* I borrowd of Mr Hunt to Smith in his shop, he promisd to enter them in his account. I spake with Dr Birch at Johnsons coffe-house. I spake with Dr. Busby, B[ishop] of Rochester and the Chapter. They desird a note from Sr Christ. Wren, signd by us both, about the Abby north end. I dind with Dr Busby, Bullock, Matier, Robinson. Anger to J. Gee much earnestnesse about Cloyster house: coach to Scotland Yard, Sr C. Wren out. Behagells

brother in shop, Tompion about compas wheel. Mr Moor calld about Fleet wall. From J. Gee catalog of electd Westm. from 48 to 66: Catalog of Toms auction.

We. 28. HH tea. Tom Crawly with HH Receavd 10^{li} of Mr Juyces servant for 1 year stable ending this 24 of June. At St Paules saluted the Dean and Sr Tho. Meers[1]: with Sr Ch. Wren saw plastering and rib carving: spake with J. Oliver about Fleet Wall. At Jon. Gof: I deliverd to Lodwick *Bontecoes* book *of tea* to translate.[2] Lake told me he found 3 rod of brick wall. DH. with Tho. Crawly. Mm. 13d. Royal Society met: I read on Ore. Read Mr Loyd letter: proposd for Accademy bookes, Hill opposd. With Crawly at Marlows: he bought a wedding ring. At Jon. Hosk, Coply, Pitfield, Lodwick, Torreano. Vincent, Houton, Adrian: Harlem: the disturbance at Naples.

Th. 29. St Pet. and Paul. Stayd for H. Hayward, he came not. HH tea. Spake to M M More DH. at Jon. Gof, Lod, Jed[3], Sr Fre K was band. Wyer. Saw Droper Bacon. in M.F. o. J. Auber about Locks book. View a sespool for Kettle o. at Pauls, Sr Chr. Wren not there: talk with Bagford and Nicolson[4] at Toms Ludgate: saw Fleet wall. At auction by Exchange o. At Jon. Caises water-works: Pif, Lod, Gof, Mevrill, Ashby, Spen o. Sugar 7d.

[1] M.P. for Lincoln.

[2] Cornelis Bontekoe, 'Tractat van het excellenste Kruyd Thee', with additions '1. Van de Coffi. 2. Van de Chocolate'. 's Gravenhage, 1679.

[3] Jed made an unsuccessful attempt to grind a diamond lens for the object glass of a microscope, using diamond dust.

[4] The association of these names of two great collectors suggests John Bagford and William Nicolson of Carlisle.

Fry. 30. With HH to H. Hayward, out: to Lambeth with Mr Cox at coffehouse 4d, returning met H Hayward in Southwark: he appoints 12 days hence. DH at Jon. Foot, Pif, Lod: Harlems o. wrote Wen. Diurnall. At Jon. Sr J. Hosk, Lod, Gof, Piff, Adrian, Wych, Spencer, Cur o. Cox and Michael about pipes. I calld Chancey, out. Cheesley 4d. Fair all day: wind N, little.

JULY

July 93. Sat. 1. To Sr Chr. Wren at Hamp[ton Court] at Vigars coffe house. Spake with Needham of Dr Busby, attended chapter Mr Vain and Rochester stand off: dind with Dr Busby and Matier; apointed Thursday next for Pells papers: at Tuttle wall Collins, D[r] B[usby] desired me to write to Daves at Ld Exeters. Coach hire 2s. Calld at Behagells and Caillou o: at Toms auction viewd books. at S. Smiths saw Rays book of *Quadrupeds*. At Jon. Pif, Lod, Ashby and Gof o: mist Mr Waller. Spake with M More about Fleet wall and sluse. HHtea, br. 6. Dumparded.

S. 2. n o. N Young D[ined] here, chick[en]. at Jo. Gof, Lod, Ash, Spe, Mart, 2 strangers o: rainy M[orn], fair p.p.

M. 3. An water-engin man from De Son who has been dead 2 years: 2 fellows again about the Fleet wall. I restord to Mr Hunt Strabos *Geograp.*, 2 *Philostratus de Apollonio Tianeo*[1], Milton *History of*

[1] C. Blount publ., in English, 'The two first books of Philostratus concerning the life of Apollonius Tyaneus' in 1680.

England 4°. I returnd to Mr Pitfield the *Life of DesCartes* in quires. Drank tea with Mrs Moor. Mm. 1. 8d. DH. at Jon. Gof, Pif, Lod, 2 sheets of Bontico. at Nicols auction 0: at Jon Ashb, Spen, Cur, Mev, Lod, Gof 0.

Tu. 4. Mist Williams at his School: met Mr Bayly. With Pif to Exchange spake to Williams at Birchin Lane. h[ome]. Mr Moor called. from Malpighius. I sent Mankenius letter to Wa. by Blackwell. Swarbeck here. to Jon. Gof, Lod, Pif, Pagg, Mart, Meev, Cur 0. Calld on Chancey.

Wen. 5. Mm. 1. 10; br. 6. HHtea. At Caillous 0. met Martin sister formerly living by Parkgate, now at a town within 7 miles of Shrewsbury: calld at S Smi[ths] 0: at Jon. Gof, Lod, Piff. Ashb. . . . DH. Royal Society met: Sr R. Southwell told me of Lord Radnor: I read Malpigh letter, minutes etc, Mays *transactions*. 3 books from S Smith shewn, to be perused. At Jon. Sr J. Hosk, Pif, Lod, Houton 0. I calld at Mr Moor about Boulter.

Th. 6. To Sr Chr Wren: spake with him and J Oliver fellows about Fleet wall here and at Scotland Yard, saw embosst figures in shed very fine. I spake with Mr Bolter, he sayd that he had not yet had time to settle it with Ld Radnor, but would speedily. At Vigors Coffe spake with Needham, noe Chapter Munday. Spake with Dr Busby at School. Returnd, calld at Calliou 0: at Nicols auction 0. DH. at Jon. Pif, Lod, Gof. Collins supæna 1s: at

Mrs Moors, letter from Mr Walker. At Jon. Lod, Gof, Pif, Cur, Spen, Mart o. Some showers.

Fr. 7. Sr J Hublon out: spake with MM More. Delivered Woodwards paper: to Sr R Southwell. Returnd with Wil[liams] saw Carter. DH. Taxmen calld. At Jon. Pif, Lod, Gof, Dr Lane, Waller, Colson, Jed, Lake o.: Pacquet-boat sunk.[1] At Williams Mrs Moors: I returnd Prestets first vol. to Williams. Ald. Chamb[erlane] out. ho. at Jon. post: Turky fleet in Lisbon: L, G, Sp, Cur, Cols, Mart, Meev, Hoxton: Stamford letter.

Sat. 8. Mm. 17 Viewd St Dunstons, S. Vedast towers, with J. Oliver, Scarboro, Strong at Joys. Spake with Sr R Levet who promisd to urge Mr Bolter to speed my Arrears. DH. at Jon. G, Lod, Foot, Pif o. In MF o: o till Jon. G, L, Pif, Spen saw *Raymonds Voyage of Italy*[2] from Mr Joy and Ald . Al . . 2 ⊙ Gu. I masterd Logarithms. B. Young fetchd booke. Turky fleet thought safe.

Sun. 9. M. Westminster. Tom Crawly till 8. At Jon, G, Lod, Spenc, Mart o.

Mun. 10. N o. DH. at Jon. Pif, Lod, Gof, Cur, Foot, Gazet: borrowd Ray *de Animalibus Quadrupedibus* etc. At home till 6, then to view St Veodast with T. Crawly. I spake to Sr Ja Hublon with Chinese at Jonathans Gof, Spen, Cur, Pif: heard Mr Aske was broke [? his statue].

[1] By French privateers.
[2] John Raymond, 'An Itinerary containing a Voyage made through Italy in 1646–7'. London, 1648.

Tu. 11. To Sr Chr. Wrens, he signd note for the Chapter. I left it with Dr Birch at Jonson[s], Tufnell there: at Dr Busbys, agreed to goe with Mr Needham to Welling *Thurs. 20.* Directed Tufnell and Collins about window gable for cramps, 2 stone, 4 punchions, place brick etc. D[ine] with Dr Busby, Bulloc, Matier, Robinson: with Dr B. viewd and measurd wall Tuttle feild: coa[ch] hire 2s. At Caillous o. From Tompion curve wheel. At Jon. Lod, Gof, Pif, Spen, Cur o. With Mrs More o. Mr Edgcome desperate feaver Westminster.

W. 12. Fast. Sought Chinese, out: visited Lod. DH with Tom Crawly. With Lod to Chinese: I shewd him Repository, Atlas Sin[ensis], Chin[ese] Almanack etc Tea, sugar, at Jon. o.

Th. 13. N o DH. at Jon. Lod, Gof o. View in Out Bishops gate Streete 10s: at Pontack disco[ur]s ch . . se. Invited to Dine by Presid. but went not. Royal Society met: Pre[sident?] Hosk, Hill, Aubury, Lod, Henshaw, Coply, Slone etc: I read lecture of Gyants, Earthquakes etc: a great defend of equivocall generations. At Jon. Hosk, Lod o.

Fry. 14. At Veres noe coles. HH tea at Caillou bespake 4 books: DH. to Jon. The Turky fleet sayd to be lost in the Bay of Lagos: Pif, Lod, Gof. Goff and Pif tea: read Critique on *des Cartes Life*: saw Cluvers *Music book* in MF o: at Jon. Gof, Lod, Pif, Mart, Mev, Spen. Sad.

Sat. 15. HH tea. To Sr Chr Wrens. Receivd of him a Warrant to Coll Peirce for 25ⁱⁱ. Spake with Mr Needham of my not going on Thursday to Welling: sent word of it to Dr Busby by Mr Bullock: Saw Lake carpenters about gable end. At Vigars o at Caillou o. Bihagells goods gon. Mm. 2s. At Jon. Pif, Waller, Blackwell, Lane, Lod, Gof. DH. Susan sick: vomited not with tea Betty Young's broth. Sleepy. Scarcrow high. In MF pd 8d for 12 tracts of Music; Candles, sope 17d. At Jon. G, Lod, Pif, Marlow o. Caillou left 6 books for Royall Societ. Susan very sick.

Su. 16. n o DH at Jon. Spen, Gof, Lod, Foot, Mar: Good news from fleet by Grain pacquet, also from Flanders by Dutch post. Talk with Hoskins Brod street At Mrs Moor tea. Sr W Trumbulls[1] letter. Shift.

M. 17. Cox plumber and Michaell about Hospitall with HH of Custom House. Received of Coll Peirces man 25ⁱⁱ upon Sr Chr. Wrens note: met there Mr Needham. DH at Jon. Lod, Gof, Foot, Pif. With Gof and Cox plumber to Hoxton: directed pipes and covering the flatt. At home *French Memoirs*. At Jon. Gof, Lod, Spen, Martin, Griffith: Dutch post o. Mar. lost 4 chickens.

Tues. 18. D[eo] o[mnipotente] m[eae] Ae[tatis] G[racias] 58. n o. gave M. 1s for chick, sugar 7. DH HH tea. At Jon: J. Gee from Dr Busby, also Tufnell said Scarbrow had measurd yesterday with the treasurer. there Gof, Lod, Pif, Foot, Slip.

[1] Governor of Turkey company and M.P. for Oxford University.

Sr R. Levet told me he had spoke again to Bolter. Young Wenebs wrote lecture: translate *Varignon:*[1] n o till 8 Jon. Hoskin pumping fire engin. then G, L, Sp, Mart, Meev, Hoten o Sl[eep] til 1. M. watchd at S. [?Susan].

W. 19. n o Mm. 18d; br. 4. Marshall showd 8 pair spectacle, 3 pair glasse all ground by his new way. DH. read. Also over at Jon, Pif, Lod, Gof, Waller o. Royall Society met: I read and took minutes; also read my Cutler Lecture. At Jon. Hosk, Pif, Lod, Wall, Gof, Meverell o.

Th. 20. Scarcro's man. Sr Chr Wren at Hampton Court. Recd. 1 pair of shoos from Stinton: I owe him now 12 sh. for 3 pair. Receivd a pacq^{t} from Lewenhook for Mr Waller. HH pd 6. DH at Jon. Huy[2] betrayd to French. Gof, Lod, Pif, Foot, Curr o. At h[ome] til 7½. Paid Marshall 18d for ∞ 1 pair: left Poket Lens to be new polisht. Met Gale, saw Alex. Burnet. At Jon G, L, Cur, Sp, Mev.

Fry. 21. N o. D. mist. Galileo *Systema Cosmick,* wrote Minutes. DH. At Hornes I receivd from him and Southby 1 guine for the last quarter for the use of my stable ending at June 24 last past. Saw Mr Locks book of *Education.* Gof, Lod, Foot o. wrote minutes. n o. at Jon. Gof, Lod, Spen, Mart, Mev, Hort o Fair and hott. Mary watch.

[1] Perhaps Pierre Varignon, 'Projet du nouvelle mechanique', 1687; or 'Nouvelles conjectures sur la pesanteur', 1690.
[2] Luttrell, iii, p. 14.

S. 22. At Sr Chr Wrens: I mist Tufn[ell]: bills. I returnd, Nicolson told me Sr J. Kings son was distracted. *Ortelius* to be had: saw *Clarks Genesis* at Smiths. DH. Mm. 20d. pp. saw Fleet wall: hit in the forehead from a shop in Old Bayle: pd Marshall for polishing lens 2d: in MF o: at Jon. Pif, Lod: Black cheries. Nag. [?hay].

S. 23. n o DH. Jon. G, L, Sp, Br, Hou: Harlems 5: very hot.

M. 24. Sr Chr. Wren approvd my value of Tufnells bill at Johnson coffe h. Delivered to Dr Birch Tufnell 2 bill & my valuations; he approvd all hitherto, ordered Rib to be proceeded: met there Mr Needham: told them both of glasiers bill. At Mr. Coxes, his father hearty, 95 years old. Saw many fine pictures. DH, sack 2d; slpp. In MF o. At Jon. Lod, Spen, Pif: 2 east India ships sayd to be taken by French in India. Hot, clear. Hallys trade taken by French.

Tu. 25. St. James 59. I paid Mr Haws, the same that receivd the last tax, 12sh for the quarterly tax: he had not his book with him, but promisd to cross his book. Collins bricklayer from Westminster: I bid him speak to Gregory to make scaffolds. At Veres Wharf not time yet.[1] At Toms Coffe house saw some of Isack Rows book. Mm. 7. DH at Jon. Pif, Lod, Goff, Foot.

[1] Perhaps the coal had not arrived.

Wen. 26. Jones Carver o. tea with Mrs More, I left Leuwenhoeks 2 books for Mr. Waller. Mr. Bos and Ald. Chamberl. abroad. Corrected last sheet of Mays *Transactions*. At Jon. Hall, Lod, Pif o DH. Mm. 2s. Southby told me he must repair stable. Royal Society met: Sr J. Hoskins, Mr Henshaw, Hill, Harewood, Slone, Hally: I deliver him 5 days Journalls of mine: I asserted my invention of Coelestiall Motions. Hosk, Hensh, Hill, Lod, Pif to meet at Childs. At Jon. news of 2 great Fights in Flanders, Thursday & Fryday last:[1] 1 East India Ship from Surat and Mocha. New shoos: hot faire cleere.

Th. 27. Mr Bolter out of town. Ald. Chamb-[erlane] out. DH. at Jon Gof, Lod, Foot, Pif. Artillery Company passd by Ch. n o pp. MF o. At Jon. post: more news of Flanders fight. Bespoke two boxes of Kettle, 13.19.27 inches within. News of uprore at Constantinople: Grand Signior, vizier and French embassad[or] strangled, Seraglio plunderd. Hot and dry, cloudy.

Fry. 28. Rain. M. to Wood street.[2] HHtea. n o. DH. at Jon. Pif, Lod, Foot o. Translate *Varignon*. br. 6d. Recd from H H the *Transactions* of June [16]93.

Sa. 29. Mm. 2s. Sr Chr. Wren out. At Vigars. Dobleday saw gable end brickd to 2nd cramp, scaffolding for the rest: South gable end worse: S. E. leads very bad: H 7 [Henry VII] Chappel

[1] Victory of William III over Duke of Luxemburg.
[2] Query Cheapside.

leading. View Langleys turret.[1] Spake with Dr Busbys carpenter and Lake. Tufnel had D. with B[isho]p at Croydon Tuesday last. At Jon. o: DH. in MF o. At Jon. Gof, Lod, Spen, C. Blount sayd to have shot himself. Pd. Spenc. 2s. for my *Orac. of Reason*. Express that the King is near Lovain. 10000 Engl. and 17000 French killd. M m. D

S. 30. n o C. Blunt book. DH. M. Peters poor Jon. Gof, Lod, Spen, Mart, Hoskin o.

M. 31. Some rain. I spake with Bolter, he sayd he and L R[2] were to receive an account from Jodderell of my affair. S . . . . . stranger, but shewd he had set me down in his book. With Lod at the Chinese, tea: I could learn little, 8 or 10 characters pronounced all alike but of differing signification. At Jon. Gazet: imperfect account of fighting. 10000 Confederates have lost, 15000 French lost. DH. to fob 10s. n o pp. HH. at Jon. Lod, Gof, Spen, Capt. Peachy buried this night. Hook of Ipswich and St Georges Southwark brothers. Cave Beck,[3] a minister at Ipswich: one ab[ou]t Dep. Heatly o.

August 1693

August 1. Tuesday. with Heatly to Hounditch o DH. at Jon. Foot, Pif, Lod, Harlem account of fight 20,000 sayd to be killd. In Houndsditch again Heatly o. Wrot lecture. At Jon. Lod, Gof, Spen, Mart, Meverel o. J. Gee from Dr Busby: he went off satisfyd. H tea: cand. 6d.

[1] Dr. S. de L'Angle. See May 4 last.
[2] Lord Radnor.
[3] The Rev. Cave Beck, author of 'The universal character', 1657.

Wen. 2. n o, exceeding guiddy. At Jo. Gof, Lod, Pif: forrein post: little. Mm. 21. br 6d. DH. Royal Society met: i.e. Hosk, Hill, Slone, Henshaw, Creed, Lod, Houton, Hally, Weeks, Hun. I read lecture of Python. Hoskins upon Spain: Society adjournd to Octob. 19 next. Cands. 9d, at Jon. Hosk, Pif, Lod, Houton o: then Mr Wood, Spen, Gof, Mev, Marlow, new coach on roulers: William: Ovall earth. Took 3 spoonfull Aldersgate. Syr. Viol. 1⅔. to meet at Childs, Thursday at 3.

Th. 3. n o. H tea. DH. at Jon. Westm. carpenter about Tuttle piles. Gazet: Lod, Gof, Pif. Saw Fleet wall finisht above ground: Bricklayer Marshall has 14 ft and 17 foot tools.[1] Slone n.p. home tea. Jon. Gof, Lod, Spen, Mart, Meverell. Ant. A Woods booke cond[emnd] to be, and was, burnt at Oxon, July 31 [16]93, and he banisht the University. Fair.

Fry. 4. I receivd 2 book boxes from Kettle. I spake to Mr Gof ab[out] Cloyster cellar fitting. Very guiddy, DH at Jon. Gof, Lod o. Walk with them to Kingsland: it refresht me. I advisd Bignol to drink chocolate. I returnd *Philostratus* to Gof, and gave him Junes *transactions*. To Jon. Gof, Lod, Spen, Houton o.

Sat. 5. Calld at Doogoods and at Veres o: at Marshalls 6 ft. and 14ft: at S. Smiths Walford told

[1] Tools for lens grinding. According to the entry in the Journal Book of the Royal Society it was ordered at their meeting of Jan. 10, 1693/4, 'that the Certificate ordered the last Meeting be omitted, and that instead thereof [the Secretary] write a letter to Mr. Marshall signifying, that his way of grinding glasses having been examined by Order of the Royal Society, the report made thereupon to him has bin much to their satisfaction'.

me Chiswell, Bently, Roger of Scot had right of Coppy of *History of the Royall Society*. Ald. Chamb-[erlane] out; Mr Moor, Blackwell and Waller returnd well from Bristow. Mm. 20s. At Jo. Gof, Lod o, DH. n o pp. MF o. At Jon. Pag, Wych, Spen, Lod o.

S. 6. n o DH. M St P[eters] Poor. At Jon. Spen, Lod o. Fair.

M. 7. M. appl. 3. Sr Chr. Wren at Hampton Court: spake with Scarboro and Doogood about Westm[inster]: spake with Towsy carpenter about Tuttle Ditch 9th 10. with Bullock and Matier o. With Bishop [of] Rochester about *History of Royal Society*. At Caillous o, left his bill with H H. At Jon. Lod o. DH. weary: sl.pp. Houton here: at Jon. Lod, Houton, Pag, Mart: 2 Posts o.

Tu. 8. A little rain. n o. Mm. 18d. DH. Fleet workmen with bills. At Jon. Gof, Lod o. n o pp. I wrot letter to choval by post. At Jon. Pag, Gof, Lod, Spen o.

[*Diary ends 8 August 1693*]

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